E/ECA/STPA/DM.5/71

Directory of Statistical Training Centres NOT participating in the Statistical Training Programme for Africa /

Répertoire des centres de formation statistique NEparticipant PAS au programme de formation statistique pour l'Afrique

LC/NAIROBI

JUNE 1987 /
JUIN 1987

Distr.
LIMITED

E/ECA/STPA/DM.5/11
3 July 1987

Original : ENGLISH

ECONOMIC COMMISSION FOR AFRICA

Fifth meeting of Directors of Centres Participating
in the Statistical Training Programme for Africa (STPA)

Addis Ababa, Ethiopia, 26-30 October 1987

DIRECTORY OF STATISTICAL TRAINING CENTRES NOT PARTICIPATING IN THE STATISTICAL TRAINING PROGRAMME FOR AFRICA (STPA)

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INTRODUCTION

The Statistical Training Programme for Africa (STPA) continues to pursue its objectives in the area of dissemination of information on statistical training activities of interest to the African countries.

At the request of the third session of the Joint Conference of African Planners, Statisticians and Demographers in March 1984, the first edition of the Directory of the Statistical Training Centres not participating in the Statistical Training Programme for Africa was prepared and published in June 1985. This is the second edition of the Directory.

The secretariat requested information contained in this Directory from the centres concerned. During the preparation of the first edition, seven centres, one in the French-speaking countries and six in the English-speaking countries responded to the secretariat request. In the preparation of the second edition the response rate of the centres increased such that there are now a total of twenty centres included in the present directory, six in the French-speaking countries and fourteen in the English-speaking countries.

It is hoped that a wide dissemination of the second issue of the Directory can be ensured with the help of National Statistical Offices and the training institutions within and outside Africa.

1. Country : Egypt

2. Name of the Centre: Institute of Statistical Studies and Research

3. Attached to : Cairo University

4. Address : Institute of Statistical Studies and Research
Cairo University Mail Box
Giza-Cairo, Egypt

Telephone: 711-223, 719-406, 719-355
Telegraphic address: ISSRSAA, Cairo University

5. Name of the Head of the Centre : Prof. Abdelmegid M. Farrag (Dean)

6. Objectives

The programmes are planned to improve the skills and level of performance of workers in the various fields of statistics, computer science and their application. Other activities carried out are special courses, seminars and workshops. It is also hoped that such programmes would enable students and trainees to transfer their expertise in these fields, to their respective work places.

7. Brief historical background

The Institute is one of the oldest specialised Institutes for postgraduate studies in Egypt and the Middle East. It was established in 1947 under the name of the Institute of Statistics, and was attached to the Faculty of Commerce, Cairo University. In 1962, it became an independent entity under its present name.

8. Academic staff

There are 65 academic staff including tutors and assistant lecturers.

9. Teaching programmes

The Institute organizes the following programmes:

a) Academic programmes: A 2-year post graduate diploma is offered in the following fields:

- Statistics;
- Demography;
- Computer & Information Sciences
- Operation Research.

b) Training courses: 4-6 weeks training courses are organized in the following areas:

- Programming languages (BASIC/FORTRAN/COBOL) Introductory and advanced levels:
- Information Systems Analysis & Design:
- Labor Statistics;
- Demography;
- Agricultural Statistics:
- Other related subjects

c) Customized training programmes: Special training courses are organized for different Ministries and Institutions according to their own needs.

d) Training programmes in collaboration with international Organizations such as the United Nations Education, Scientific and Cultural Organization (UNESCO) and the International Labor Organization (ILO) are also organised.

10. Admission requirements

Only university graduates are admitted to the academic programme after passing an entrance exam. For other programmes, the requirements may vary according to the nature of the training course itself.

11. Fees (1986/1987)

Fees for the first year of study are 37.30 L.E.
Fees for the second year of study are 32.30 L.E.
For training courses during summer and winter the following fees apply

Summer : 25-40 L.E.
Winter : 25-60 L.E.

12. Fellowships

Fellowships are available for certain types of courses.

13. Living conditions

14. Intake and output

A. Total enrolment for the academic programmes in different disciplines (1986/87):

First year 460 students
Second year 132 students

B. Number of graduates:

Academic programme: 77 graduates (1986)

Training programme: Winter (November 1984/May 1985)
282 trainees
Summer (June 1985/October 1985)
1120 trainees

1. Country : Egypt

2. Name of the Centre: Department of Statistics

3. Attached to : Faculty of Economics and Political Science
Cairo University

4. Address : Department of Statistics
Faculty of Economics & Political Science
Cairo University
Giza, Egypt

5. Name of the Head of the Centre : Prof. Hussein Abdel-Aziz Sayed

6. Objectives

The objective of the Department of Statistics is to teach courses leading to the B.Sc., M.Sc. and Ph.D degrees in statistics.

7. Brief historical background

The Faculty of Economics and Political Science was founded in 1960.

8. Academic staff

In the Department of Statistics there are:

5 full professors
4 associate professors
9 assistant professors

9. Teaching programmes

The programme leading to the degree in statistics is conducted in four years. The courses and credit hours for each year (grade) of study are as follows:

First year (grade)
(general)

	Credit hours
Principles of statistics	2
Principles of mathematics	2

Second year (grade)
(Political science)

Applied statistics (economics)	2
Mathematics	2
Statistics for economics	2

	Credit hours
(statistics)	
Applied statistics	2
Mathematics	4
Principles of probability	2
Mathematical and statistical laboratory (principles of computer science)	2
Third year (grade) (statistics)	
Principles of statistical theory	3
Mathematics for statistics	3
Mathematical and statistical laboratory	3
Electronic programming	2
Mathematical economics and econometrics	2
Management and project evaluation	2
Fourth year (grade) (statistics)	
Theory of statistics	3
Stochastic processes	2
Experimental design	2
Operations research	2
Demography	2
Advanced statistical analysis	2
Sampling	2

The department also offers specialised training programmes tailored to specific organisations but without offering any formal diplomas, if they are requested to do so.

10. Admission requirements

(a) Undergraduates

To undertake a degree in statistics the requirement is as follows:

Obtaining a high school certificate and in addition pass the examination of the first general grade in the Faculty of Economics and Political Science (with adequate grades). The numbers admitted range between 30-60 students.

(b) Graduates

To undertake a postgraduate degree in statistics, the following requirements apply:

- To join the M.Sc. programme, one must obtain a B.Sc. degree in statistics.
- To join the Ph.D programme in statistics, one must obtain an M.Sc. degree in statistics.

Numbers admitted range between 10-20 for the M.Sc. programme and 0-5 for the Ph.D programme.

11. Fees

Once admitted to the programme tuition fees are free.

12. Fellowships

-

13. Living conditions

The conditions for the students in the Department of Statistics are the same as those of the rest of the students in the Cairo University.

14. Intake and output

See item 10 for some of the information on numbers admitted. However, for 1985/86 and 1986-87, these numbers are:

	Intake (1986/87)	Output (1985/86)
Undergraduate	30	37
M.Sc. program	17 (cumulative)	6
Ph.D programme	16 (cumulative)	3

1. Country : Ethiopia

2. Name of the Centre : Department of Statistics

3. Attached to : Addis Ababa University

4. Address : Department of Statistics
Faculty of Science
Addis Ababa University
P.O. Box 1176
Addis Ababa, Ethiopia

5. Name of the Head of the Centre : Dr. Alemayehu Melaku

6. Objectives

The primary objective of the degree programme has been to train junior statistical professionals who will serve in the collection, processing and analysis of statistical data. The department has also the objective of offering service courses to other teaching units in the University.

7. Brief Historical Background

Based on the recommendations of the First African Statisticians Conference which was held in 1959, the United Nations established statistical training centres in Africa on a regional basis. The Centre for the East African region was opened in Ethiopia in 1961. The Centre was located in the Faculty of Science of the former Haile Selassie I University and provided a one-year programme leading to a certificate in statistics for candidates deputed by different governments of the region. The name of the Centre was "UN Statistical Training Centre". The Centre operated during the years 1961-1965.

The Centre functioned under the auspices of the United Nations through the Economic Commission for Africa (ECA), the Ethiopian Government and finally through the then University College of Addis Ababa. A director recruited through ECA was assigned to run the programme.

The objectives of the programme were:

(a) to organize courses in statistical methods and techniques so as to prepare trainees from African countries for middle-grade jobs in Statistical Offices;

(b) to arrange for the participation of the trainees in field surveys organized by the Government of Ethiopia and other African countries;

(c) to provide consultancy services on problems of training statistical personnel in Governments in Africa or their agencies.

The courses offered to the trainees were mainly in Economics and Agriculture oriented subjects. The trainees had to complete 34 credit hours in two semesters to be eligible for the award of a certificate.

In view of the growing demand for highly qualified statistical personnel, the Government of Ethiopia instituted two additional programmes in 1966/67 academic year. The programmes were the Diploma and Degree in statistics. At this time, the Centre was renamed "Statistical Training Centre". These different levels of training operated simultaneously under the supervision of the Faculty of Science within the Mathematics Department until 1973 when the Training Centre was reorganized and named the "Department of Statistics".

In 1973, the certificate programme ended and the Diploma programme started in the Extension Division.

The degree and diploma programmes which started in 1966/67 academic year continued up to 1977. During 1977, the Diploma programme was terminated. Since 1977, the Department of Statistics run the degree programme during the day and the diploma programme in the Extension Division. The graduate programme in statistics started in 1983/84 academic year.

8. Academic Staff

The academic staff of the Department of Statistics consist of:

One Professor on sabatical leave
Two Associate Professors
Two expatriate Associate Professors
One Assistant Professor
Six Lecturers

The Department also relies on staff from the Department of Mathematics.

9&10 Teaching Programmes and Admission Requirements

The Department offers the following programmes:

Statistics Diploma (extension)
B.Sc. degree (regular) in statistics
Graduate programme in statistics

(a) Statistics Diploma (extension)

i) Duration of the course: 4 years

ii) Entrance requirements:

- At least three C's in the Ethiopian School Leaving Certificate Examination which should include English and mathematics, and/or

- Completion of a certificate programme in statistics with a grade point average of at least 1.50.

(b) B.Sc. (regular) in statistics

i) Duration of the Course: 4 years

ii) Entrance requirements

- A candidate must have passed the Ethiopian School Leaving Certificate Examination (ESLCE) or its equivalent.

iii) Courses

Compulsory statistics courses

Course	Credits
Stat 173 Introduction to statistics	3
Stat 177 Statistical Organization and Procedures	2
Stat 271 Statistics I	4
Stat 272 Statistics II	4
Stat 275 Introduction to Probability	3
Stat 375 Sample and Survey Methods	4
Stat 376 Design of Experiments	3
Stat 378 Demography	3
Stat 379 Applied Statistics I	4
Stat 380 Applied Statistics II	4
Stat 386 Econometrics	3
Stat 475 Statistical Theory of Distribution	3
Stat 476 Statistical Inference	3
Stat 479-480 Research Project	2-2

One course will be taken out of the following:

Stat 381 Social Accounts	3
Stat 477 Operations Research	3

Maths Minor: Compulsory mathematics courses

Math 100 Preliminary Mathematics	4
Math 153 Freshman Mathematics	4
Math 223 Fundamental Concepts of Algebra	3
Math 224 Introduction to Linear Algebra	3

Physics Courses

Phy 100 General Physics I	4
Phy 104 General Physics II	3

Chemistry Courses

Chem 100 General Chemistry	4

(iv) Qualification for graduation

- To qualify for the award of the B.Sc. degree in statistics, a candidate is required to take at least 53 semester credit hours in Statistics, about 30 in Mathematics, 9 in English, 7 in Biology, 7 in Physics, 4 in Chemistry and 30 in Social Sciences. The candidate must also pass with a grade point average of 2.0 or better. In addition, the candidate is required to present a senior paper in statistics.

- Statistics majors may not graduate with more than three D's or with any grade of F or with a GPA of less than 2.0 in statistics courses. The GPA in mathematics should also be not less than 2.0 but students may graduate with one or more D grades but with no F grade.

(c) Graduate programme in statistics

The main objectives of the M.Sc. programme in statistics are:

- To train high-level statisticians who will be equipped with the necessary knowledge needed for providing professional support for the orderly development of Ethiopia's economic and social services.

- To train staff that would be engaged in the teaching of statistics at the undergraduate or junior college levels of the country.

- To strengthen the undergraduate programme.

- To provide the country with personnel capable of conducting applied research in the University, Institutions, Government Ministries and Agencies.

- To enhance research capability of the Department's teaching staff.

i) Duration of the Course

A minimum of two years for the M.Sc. degree and a maximum of 5 years.

ii) Entrance Requirements

- Candidates must fulfil the Addis Ababa University requirements for admission to the Master's programme as laid down in the regulations.

- Candidates who have the degree of B.Sc. in statistics at Addis Ababa University or any other recognized institution of higher learning and satisfy the above condition may be admitted directly to the graduate programme.

- Other candidates with Bachelor's degrees in related subjects such as Mathematics, Computer Science, Economics, Agriculture and Engineering at Addis Ababa University or at recognized institutions may be admitted to the graduate programme in statistics provided they undergo a special

study programme at the undergraduate level to be worked out by the Department. Such courses, however, will not count towards the degree programme. Such candidates will be required to pass at least 15 semester credits from the compulsory statistics courses at the undergraduate level. They will also be required to be familier with differential and integral calculus, linear algebra and computer programming.

- Candidates who have minor deficiencies will be required to take relevant courses concurently, wherever possible, with graduate courses. Such courses will not count towards the degree programme.

iii) Programme of Study

A student's programme of study will include course work and a thesis.

- The course work requires at least 27 semester credits of which 21 credits are compulsory statistics and 6 credits are electives.

- A written thesis carrying 6 semeseter credits should be submitted and defended in front of an examination board.

The course load for each students will be as follows:

iv) Courses

Compulsory Courses (21 credits)

		Credits
	Stat 571 Statistical Theory I	3
	Stat 572 Statistical Theory II	3
	Stat 574 Computer Programming	3
	Stat 575 Sampling Theory and Applications	3
	Stat 576 Linear Models	3
either	Stat 577 Applied Regression Analysis	3
or	Stat 580 Econometrics	3
either	Stat 581 Introduction to Multivariate Methods	3
or	Stat 582 Non-Parametric Methods	3

Elective Courses (6 credits)

Stat 577 Applied Regression Analysis	3
Stat 578 Demographic Analysis	3

Stat 579 Time Series Analysis	3
Stat 580 Econometrics	3
Stat 581 Introduction to Multivariate methods	3
Stat 582 Non-parametric Methods	3
Stat 583 Introduction to Stochastic processes	3
Stat 584 Special Topics	3

A six semester credits M.Sc. thesis Stat 587 is also required.

The minimum requirements for graduation (including the thesis) shall be a cumulative average of "B".

11. Fees

-

12. Fellowships

-

13. Living conditions

-

14. Intake and output

Academic Year	Statistics Diploma (Extension)		B.S. Degree in Stat. (regular)		Graduate Program in Stat. (M.Sc.)	
	Intake	Output	Intake	Output	Intake	Output
1983/84	46	30	71	47	8	-
1984/85	36	27	85	36	4	-
1985/86	40	10	70	51	2	8
1986/87	35	-	-	-	4	-

1. Country : Kenya

2. Name of the Centre: Division of Statistics

3. Attached to : Department of Mathematics
University of Nairobi

4. Address : P.O. Box 30197
Nairobi
Kenya

Telephone: 43185 Ext. 208
Telegraphic address: VARSITY, Nairobi

5. Name of the Head of the Division : Professor M.S. Patel

6. Objectives

The centre has the objective of training students for Bachelor of Science, Master of Science and Doctor of Philosophy degrees in statistics. It has also the objective of training students for post-graduate diploma in statistics.

7. Brief Historical Background

The Division of Statistics started operating effectively from 1975 and is sponsored by the University of Nairobi. Its first output of graduates in statistics was in 1978. Originally statistics courses at the University of Nairobi were taught in the Mathematics Department.

8. Academic staff

The academic staff of the Division of Statistics consist of:

One Professor who is also head of the Division
Two Senior lecturers
Two lecturers
Two tutorial fellows

9&10 Teaching programme and admission requirements

The Division of Statistics is at present running the following programmes:

Diploma in Statistics
Bachelors Degree in Statistics
Masters Degree in Statistics
Doctorate Degree in Statistics

a) Diploma in statistics

i) Duration of the course: One academic year

ii) Number of places offered in 1984: The programme is not under operation due to lack of students

iii) Entrance requirements

This is a post-graduate course in statistics for those working in statistical institutions but have no formal training in statistics. Candidates must be graduates of recognised Universities with mathematics as a principal subject at A-level.

b) B.Sc. degree in Statistics

i) Duration of the course: Three years

ii) Number of places offered in 1984: 55

iii) Entrance requirements

- A school certificate or general certificate of education with passes in five approved subjects obtained prior to the sitting of the higher school certificate or advanced level of the General Certificate of Education, and

- One of the following combination of passes in the higher school certificate examination or advanced level of the General Certificate of Education.

  1. Two principals or advanced level passes obtained at the same sitting.

  2. Two principals or advanced level passes obtained at different sittings or the same sitting provided that both passes are of grade C or higher.

The conditions specified above apply to applicants who have prepared themselves by private study in the high school certificate level. The above requirements should be regarded as minimum.

There is also a mature age qualifying scheme for admission which are specified in the University Calendar.

iv) Courses

The degree students are required to take a selection of the following courses in addition to some courses in mathematics, chemistry, physics, geography, economics or geology.

11. Fees

	Tuition (K.Sh/annum)	Residence (3 terms)(K.Sh)
Undergraduates	20,000	5,775
Occasional student	3,000	5,775
Postgraduate student	20,000	-

The above fees are for the 1986/87 academic year and are quoted in Kenyan Shillings.

12. Fellowships

All postgraduate students are sponsored by the University through DAAD scholarships.

13. Living conditions

Most of the students live in halls of residence in the University main campus. There are five campuses, all but one of which are within the city of Nairobi.

14. Intake and output

Course/year	1979	1980	1981	1982	1983	1984	1985	1986
B.Sc. statistics	42	45	94	nil (no exam)	45	25	55	60 (due)
M.Sc. statistics	5	3	5	-	4	5	3	10 (due)
Ph.D. statistics (graduated)	-	-	1	-	1	1	-	2+3(due)

1. Country : Nigeria

2. Name of the Centre: Department of Mathematics

3. Attached to : The Polytechnic, Calabar

4. Address : Department of Mathematics
The Polytechnic
P.M.B. 1110
Calabar
Cross River State
Nigeria

5. Name of the Head of the Centre : Mrs. M.I. Umoren

6. Objectives

The Department offers two programmes leading to:

a) National Diploma in Statistics and,

b) The Higher National Diploma in Statistics

Each of these programmes is of two years duration. The National Diploma in Statistics is designed to produce middle-level manpower in Statistics for the public and private sectors of the economy. Sirilarly the Higher National Diploma in Statistics is designed to produce high-level manpower exposed to both the theoretical and the practical aspects of statistics to meet the needs of the public and private sectors of the economy.

7. Brief historical background

The Polytechnic, Calabar was established in 1973 by the Cross River State Government to produce the much needed manpower for the State. Prior to October 1979, there was a Division of Mathematics in the Department of Natural and Applied Sciences with a few Mathematics staff whose sole function was to teach Mathematics and Statistics courses to other Departments in the Polytechnic. The setting up of the Department of Mathematics became necessary in October 1979 as it was to take on additional responsibility of mounting a programme in Statistics. This was necessary as there was a shortage of statisticians and statistical staff in the state. Also it was observed that the quota being given to the indigenes of the state in the Federal Office of Statistics Certificate and Diploma Programmes at Ibadan was grossly inadequate. Thus by October 1979, a Nigeria National Diploma (NND) in statistics of four years duration was started with an initial intake of twenty six students. This programme consisted of six semesters of course work and two semesters of industrial attachment.

However, by October 1980, the Federal Government changed its policy on education and a two tier system of National Diploma (ND) and Higher National Diploma (HND) each of two years duration were adopted instead. There is also a three months supervised industrial attachment undertaken by the students during the long vacation period at the end of the first year of ND and HND respectively.

Recently the HND students are no more allowed to go out for industrial attachment, since it is assumed that a one year post ND working experience is a sufficient exposure. However, they carry out a supervised project which they must write up, and submit for grading, and defend in the presence of a panel of experts.

By October 1985, the preliminary study programme of one year duration was introduced because of shortage of qualified students for direct entry to ND statistics. Apart from the above, the Department runs two 2-week short courses on Industrial Statistics and quality control during the long vacation for staff from industries. The response has so far been very encouraging for both courses.

8. Academic staff

At the moment the Department has a teaching staff strength of eleven with one Assistant Statistical Officer in the Statistical Laboratory. The teaching staff consist of three expatriates and eight Nigerians, one of them from the University of Calabar doing his sabatical with the Department. The number of staff for each posts are as follows:

- One Principal Lecturer,
- Three Senior Lecturers,
- Four staff at Lecturer I level,
- One staff at Lecturer III level, and
- Two Assistant Lecturers

9&10 Teaching programmes

All the teaching programmes are organised under the Polytechnic Semester system and courses are evaluated using the cumulative grading system, except the preliminary programme where the school certificate grading system is adopted. The cumulative grading system adopted by the Polytechnic is as follows:

GRADING SYSTEM

% Score	Letter Grade	Numerical grade equivalent
75 - 100	A	4.00
70 - 74	B	3.50
60 - 69	C	3.00
55 - 59	D	2.50
50 - 54	E	2.00
40 - 49	P	1.50
30 - 39	F	1.00
25 - 29	EF	0.50
0 - 24	F	0.00

a) Preliminary programme in statistics

i) Duration: 1 year (2 semesters of 15 weeks of course work)

ii) Eligibility for admission

The minimum entry requirement is the West African School Certificate (WASC) or its equivalent, with at least two credits in social or natural science subjects plus at least three passes one of which must be in mathematics all obtained in not more than two sittings.

iii) Regulation: A candidate is expected to offer courses totalling 630 contact hours (42 semester hours). A candidate has to pass these courses with a minimum grade of C being allowed to proceed to ND statistics programme. The distribution of the semester hours for courses offered is as follows:

Subject	Semester hours
English Language	8
Statistics	7
Mathematics	8
Social science	11
Natural science	8
	42

b) National Diploma (ND) in statistics

i) Duration: 2 years (4 semesters of 15 weeks of course work and 3 months industrial attachment).

ii) Eligibility for admission:

The minimum entry requirement is the WASC or its equivalent, with at least four (4) credits in not more than two sittings, one of which must be in mathematics and two others in natural or social science subjects, plus at least a pass in English language.

iii) Regulation: To qualify for the award of ND in statistics, a candidate must have offered courses amounting to a total of 77.5 semester hours. Consisting of

Core courses	61.0
Ancillary courses (ANC)	16.5
	77.5

Courses offered are as follows:

Code	Course title	Status	Semester hours
Year 1: First Semester			
SA 111	Descriptive Statistics I	Core	4.0
SA 112	Statistical Theory I	"	2.0
MA 113	Logic and Algebra	"	2.5
MA 114	Introduction to Computer	"	2.0
MA 115	Trigonometry & Analytical Geometry	"	2.5
EN 100	Use of English	Anc.	2.5
BA 103	Principles of Economics I	"	3.5
			19.0
SA 221	Descriptive Statistics II	Core	3.0
SA 222	Statistical Theory II	"	3.0
MA 223	Calculus I	"	3.0
MA 214	Computer Techniques I	"	2.5
EN 200	Technical & Scientific Reports	ANC.	2.0
BA 203	Principles of Economics	"	3.5
GS 102	Social Studies	"	2.0
			19.0
Year II: First Semester			
SA 311	Elements of Statistical Methods	Core	3.5
SA 312	Simple Regression & Correlation Analysis	"	2.5
SA 332	Statistical Theory III	"	3.0
MA 333	Calculus II	"	3.5
SA 315	Economic & Social Statistics	"	3.0
SA 316	Industrial Statistics	"	3.0
AC 100	Principles of Accounts	ANC.	3.0
			21.5
Year II: Second Semester			
SA 411	Experimental Design	Core	3.0
SA 412	Sample Surveys	"	4.5
MA 443	Differential Equations	"	2.5
MA 424	Computer Techniques II	"	3.0
SA 415	Introductory Biostatistics	"	3.0
SA 416	Demography	"	2.0
			18.0

c) Higher National Diploma (HND) in statistics

i) Duration: 2 years (4 semesters of 15 weeks of course work)

ii) Elibility for admission:

The minimum entry requirement is the diploma in statistics with at least a lower credit, or its equivalent obtained from a recognised institution of higher learning. In addition, satisfactory completion of at least one year post-diploma relevant working experience is required. The students are expected to specialise in any one of the following areas:

- Biometrics and Medical Statistics;
- Demography and Medical Statistics;
- Demography and Economic & Social Statistics;
- Econometric and Industrial Statistics;
- Stochastic Processes and Operational Research.

iii) Regulation: To qualify for the award of Higher National Diploma in statistics a candidate is expected to offer courses amounting to 76.5 semester hours, broken down as follows:

Core Courses	70.5
Ancillary Courses	6.0
	76.5

A break down of the courses offered is as shown below:

Code	Course Title	Status	Semester hours
Year I:	First semester		
SA 511	Statistical theory	Core	3.0
SA 512	Applied Regression Analysis	"	5.0
SA 513	Statistical Inference and Scientific Method	"	3.0
MA 512	Computer Programming I	"	3.0
MA 514	Linear Algebra & Partial Differential Equations	"	4.0
BA 500	Socio-Economic Issues	"	3.0
			21.0
Year I:	Second Semester		
SA 611	Time Series Analysis	Core	4.0
SA 612	Sample Surveys	"	4.0
MA 615	Advanced Calculus	"	3.0
BA 616	Principle & Practical of Statistical Management	Anc.	3.0
MA 614	Linear Programming & Numerical Analysis	Core	4.0
			18.0

Year II: First Semester

Code	Course Title	Status	Semester hours
SA 711	Non-Parameter Statistics	Core	3.5
SA 712	Experimental Design I		3.0
SA 713	Statistical Computin		3.0
SA 722	Computer Programming II		3.0
Plus any one of the followin electives:			
SA 714	Biometrics	Core	3.0
SA 715	Demography		3.0
SA 716	Econometrics		3.0
SA 717	Stochastic Processes		3.0
			18.5

Year II: Second Semester

SA 811	Project	Core	5.0
SA 812	Experimental Design II		4.0
SA 813	Multivariate Analysis		4.0
Plus any one of the following electives:			
SA 814	Medical Statistics	Core	5.0
SA 815	Economic/Social Statistics		5.0
SA 816	Industrial Statistics		5.0
SA 817	Operational Research		5.0
			18.0

Both the DD and HDD Certificates are graded as follows:

Cumulative Grade Point Average	Class
3.5 - 4.0	Distinction
3.0 - 3.49	Upper credit
2.5 - 2.99	Lower credit
1.5 - 2.49	Pass
0 - 1.49	Fail

11. Fees per annum (Naira (₦))

Programme	Accommodation	Tuition	Registration	Exam	Sport	Union	Total
Preliminary	100	240	50	10	10	10	420.00
ND Statistics	100	300	50	10	10	10	480.00
HND Statistics	100	400	50	10	10	10	580.00

12. Fellowships

At the moment no local fellowships are provided by the Polytechnic. Candidates are expected to compete for the Federal Government Scholarships and Overseas sponsorship in Technical Education.

13. Residential accommodation

There are halls of residence that could accommodate up to two thousand students in the Polytechnic compound. Other students arrange for their own accommodation outside the compound.

14. Intake and output

Year	Intake/ Output	PROGRAMME					Total
		Preliminary	National Diploma ND I	National Diploma ND II	Higher National Diploma HND I	Higher National Diploma HND II	
1979/80	Intake	-	-	-	26	-	26
	Output	-	-	-	-	-	-
1980/81	Intake	-	20	-	-	24	44
	Output	-	-	-	-	-	-
1981/82	Intake	-	9	10	-	24	43
	Output	-	-	8	-	-	8
1982/83	Intake	-	10	13	-	20	43
	Output	-	-	10	-	15	25
1983/84	Intake	-	6	12	4	2	24
	Output	-	-	6	-	2	8
1984/85	Intake	-	8	10	-	4	22
	Output	-	-	6	-	4	10
1985/86	Intake	-	17	10	4	-	-
	Output	-	-	-	-	-	-

1. Country : Nigeria

2. Name of the Centre: Department of Statistics

3. Attached to : Faculty of Science

4. Address : Department of Statistics
Faculty of Science
University of Ilorin
Ilorin, Nigeria

5. Name of the Head of the Centre : Dr. M.B. Laval

6. Objectives

The objectives of the programme are to prepare students for a career in statistics. To achieve this, the programmes are structured such that the students derive maximum benefit in most of the relevant areas of statistics. The department trains students for the B.Sc., M.Sc. and Ph.D. degrees in statistics.

7. Brief historical background

The department is part of the Faculty of Science of the University of Ilorin. The department became autonomous in 1977.

8. Academic staff

The department has a total of 9 staff members composed of 3 Senior Lecturers and six Lecturers.

9&10 Teaching programme and admission requirements

The department offers the following programmes:

B.Sc. (Hons) degree in statistics
M.Sc. degree in statistics
Ph.D. degree in statistics

(a) B.Sc. (Hons) degree in statistics

i) Duration of the course: Four years for those candidates who enter through Joint Admission Matriculation Board examination and three years for direct entry candidates.

ii) Entrance requirements

Five ordinary level passes at credit level including English language and mathematics or statistics. Direct entry candidates in addition to the above must pass at least two advanced level subjects one of which must be mathematics. Candidates with Diploma in statistics from a recognised university or polytechnic may also be considered for direct entry if ordinary level requirement is satisfied.

iii) Courses

Students are required to take the following courses in addition to some courses they will take in mathematics, physics, chemistry or geology.

100 Level

Major courses

Course No.	Title	Credit
STA 121	Descriptive Statistics	3
STA 122	Introduction to Probability	3
STA 123	Statistics Practicals	3
STA 124	Introduction to Probability distributions	3
STA 125	Basic concepts of Sample Survey	3
MAT 101	Introductory Algebra I	3
MAT 111	Differential Calculation	2
MAT 112	Integral Calculation	2
MAT 121	Trigonometry	2
MAT 133	Introductory Algebra II	1
MAT 141	Vectors	
MAT 143	Co-ordinate Geometry	2

Plus at least 6 other credits in courses in Physics or Geology or Chemistry.

200 Level

Major Courses

Course No.	Title	Credit
STA 221	Probability & Probability Distribution I	3
STA 222	Probability & Probability Distribution II	3
STA 223	Statistical Methods I	3
STA 224	Statistical Methods II	3
MAT 201	Introductory Algebra III	3
MAT 211	Real Analysis	3
MAT 221	Complex Analysis I	2
MAT 243	Ordinary differential equations	3
MAT 252	Numerical Analysis I	2
MAT 261	Introduction to Computer Science	3

In addition, candidates are required to offer at least six other credits in either Physics, Geology or Chemistry.

300 Level

Major Courses

Course No.	Title	Credit
STA 341	Statistical Inference I	3
STA 342	Statistical Inference II	3
STA 343	Statistical Inference III	3
STA 344	Regression Analysis & Analysis of Covariance (ANOVA)	3
STA 345	Design & Analysis of Experiments I	3
STA 346	Sample Surveys I	3
STA 348	Statistical Quality Control	3
MAT 301	Algebra	3
MAT 302	Linear Algebra	3
MAT 311	Analysis I	3

Elective Courses

A minimum of six credits from the following:

STA 347	Sample Surveys II	3
STA 349	Econometrics	3
STA 352	Economic Statistics	3
MAT 346	Mathematical Methods I	3
MAT 352	Numerical Methods II	3
MAT 361	Computing	3

400 Level

Major Courses

Course No.	Title	Credit
STA 438	Multivariate Analysis	3
STA 441	Design & Analysis of Experiments II	3
STA 446	Seminar	1
STA 447	Project	5

Elective Courses

STA 435	Demography	3
STA 436	Psychometrics	3
STA 437	Operations Research	3
STA 439	Applied Multivariate Analysis	2

Course No.	Title	Credit
STA 442	Sample Surveys III	3
STA 443	Time Series Analysis	3
STA 444	Elements of Stochastic Processes	3
STA 445	Statistical Inference IV	3

Note: The three year degree programme is the same as the four year standard programme except that the direct entry students join at the 200 level.

b) M.Sc. and Ph.D. degrees in Statistics: These programmes started during the 1984/85 session.

i) Duration of the course: M.Sc. Twelve calendar months
Ph.D. Thirty-six calendar months

ii) Courses

The available courses are as follows:

	Title	Credit
STA 651	Statistical Inference	3
STA 652	Sample Surveys	3
STA 653	ANOVA and Design of Experiments	3
STA 654	Econometric Methods I	3
STA 655	Measure Theory and Advanced Probability	2
STA 656	Multivariate Analysis I	2
STA 657	Analysis of Multivariate Categorical Data	2
STA 658	Quality Control and its Management I	2
STA 670	Research Project	5

Elective Courses

STA 659	Stochastic Processes with Application	2
STA 660	Non-Parametric and Sequential Analysis	2
STA 661	Theory of Games and Decisions	2
STA 662	Time Series Analysis and its Application	2
STA 663	Methods of Operational Research	2
STA 664	Econometric Methods II	2
STA 665	Multivariate Analysis II	2
STA 666	Quality Control and its Management II	2

11. Fees

The fees are as follows for 1986/87 academic session.

Fees	B.Sc. Programme (₦)*	Higher Degree (₦)*
Tuition (foreign students only)	1,050.00	2,000.00
Accommodation (on campus)	90.00	120.00
Students Union/Sport	7.00	7.00
Caution Deposit	20.00	20.00
Examinations	30.00	50.00
Annual Registration	10.00	20.00

*₦ = Naira

12. Fellowships

-

13. Living conditions

Registered students are normally accommodated in University hostels on the main campus. Students are also permitted to live out of the campus at their request.

14. Intake and output

The number of graduates from 1979/80 - 1985/86 by degree are as follows:

Degree course	1979/80	1980/81	1981/82	1982/83	1983/84	1984/85	1985/86
B.Sc.	4	9	10	11	8	9	20
M.Sc.	-	-	-	-	-	-	3
Ph.D.	-	-	-	-	-	-	-

1. Country : Nigeria

2. Name of the Centre: Department of Statistics

3. Attached to : Faculty of Physical Sciences,
University of Nigeria

4. Address : Department of Statistics
Faculty of Physical Sciences
University of Nigeria
Nsukka Campus

Telegraphic address: NIGERSITY NSUKKA
Telephone: Nsukka 6251

5. Name of the Head of the Centre : Dr. I.D. Onukogu

6. Objectives

The major objective of the under-graduate programme is to prepare students for a career as statisticians. To achieve this, objective courses are offered in key areas of statistics such as Probability and Stochastic processes, Design and analysis of Experiments, Statistical methods and Inference, Sampling technique, Quality control and Operations Research. Laboratory, field work and research project provide opportunity to apply the theory learned in a classroom.

The post-graduate program is aimed at training students thoroughly in contemporary knolwedge of their major areas of interest and to contribute to that knowledge through scientific investigation.

7. Brief Historical Background

The Department of Statistics is part of the Faculty of Physical Sciences of the University of Nigeria. The Department is located at Nsukka Campus.

8. Academic Staff

The department has a total staff of 11 composed of one professor, six senior lecturers and four lecturers.

9&10 Teaching Programme and Admission Requirements

The Department offers the following programmes:

B.Sc. (Hons) degree in statistics
B.Sc. combined (Hons) degree in statistics with mathematics, economics or computer science
M.Sc. degree in statistics
Ph.D degree in statistics

(a) B.Sc. (Hons) and B.Sc. combined (Hons) degrees in statistics

i) Duration of the courses: Four years for those candidates who enter by entrance examination and three years for direct entry candidates.

ii) Entrance requirements

In addition to the minimum university requirements, candidates must have passed at the West African School Certificate examination or an equivalent examination with credits in statistics or additional mathematics or mathematics and physics or chemistry or economics. Direct entry candidates in addition to the above, must pass the Higher School Certificate examination or at the GCE A level in two subjects one of which must be mathematics.

iii) Courses

Students are required to take the following courses in addition to some courses they will take in mathematics, physics, chemistry, economics, biology or agriculture. The courses are detailed below:

- First year

Major courses	Title	Credit
Stat 111	Probability I	6
Stat 131	Inference I	6
Stat 132	Laboratory for Inference I	3
Required ancillary courses		
Math 111A	General mathematics I	4
Math 112B	General mathematics II	4
Math 113C	General mathematics III	4
General studies		
G.S. 101	The use of English	6
Elective courses		
Any 12 credit combination from the following:		
Math 131A	Mechanics I	3
Math 132B	Mechanics II	3
Math 133C	Mechanics III	3

Courses (cont'd)

Elective courses	Title	Credit
Phy 104	General Physics for Engineering and Physical Sciences I	3
Phy 105	General Physics for Engineering and Physical Sciences II	3
Phy 106	General Physics for Engineering and Physical Sciences III	3
Phy 191	Practical Physics I	3
Chem 101	Basic Principles of Chemistry I	3
Chem 111	Basic Principles of Chemistry II	3
Chem 121	Basic Principles of Chemistry III	3
Chem 171	Practical Chemistry	3
Geol 103B	Basic and Applied Geology for Enviromental and Physical Science	4
Econ 101A	Principles of Economics I	3
Econ 102B	Principles of Economics II	6
Biol 151A	General Biology	4
Biol 151B	General Biology	4
Biol 151C	General Biology	4
Ag 101	Introduction to Agriculture	3

Mathematics, Physics and Chemistry should be taken together as a group.

- Socond Year

Major courses		
Sta 211	Probability II	6
Sta 231	Inference II	6
Sta 232	Laboratory for Inference II	3
Required Ancillary		
Math 221A	Calculus and Analytic Geometry I	3
Comp 214AB	Computer Programming for Phy.Scs.	6
General studies courses		
G.S. 103	Social Science	6
G.S. 207	Humanities	6

Second year courses (cont'd)

Elective courses	Title	Credit
A minimum of 9 credits from the following:		
Econ 201A	Economic Theory I	3
Econ 202BC	Economic Theory II	6
C.Sc. 312	Introduction to Crop Science	6
Math 212B	Linear Algebra I	3
Math 224C	Calculus and Analytic Geometry II	3

- Third year

Major courses		
Sta 311	Probability III	6
Sta 321	Distribution theory	3
Sta 331	Inference III	6
Sta 332	Laboratory for Inference III	3
Sta 341	Sampling theory & methods	6
Sta 342	Laboratory & field work for sampling	3
Sta 361	Algebraic Basis of Operations Research	3

Elective courses		
A minimum of 16 credits from the following:		
Sta 323	Biometrics	6
Sta 324	Regression Analysis I	3
Sta 325	Analysis of variance I	3
Sta 343	Statistical Quality Control	6
Sta 344	Laboratory and Field Work for Statistical Quality Control	3
Sta 351	Demography	6
Sta 352	Laboratory and Field Work for Demography	3
Sta 362	Operations Research	6
Sta 363	Laboratory for Operations Research	3
Math 324B	Complex Variables I	3
Math 327C	Complex Variables II	3
Econ 431A	Econometrics I	3
Econ 431B	Econometrics II	6
C.Sc. 531A	Field Experimentation	3

- Fourth year

Major courses	Title	Credit
Sta 412	Stochastic Processes	6
Sta 413	Stationery Time Series	6
Sta 421	Design and Analysis of Experiments	6
Sta 431	Bayesian Inference	6
Sta 431	Non-parametric Methods	6
Sta 491	Project	6

Elective courses

A minimum of 12 credits from the following:

Sta 411	Probability IV	6
Sta 422	Regression Analysis II	3
Sta 423	Biometrics	6
Sta 424	Analysis of Variance II	3
Sta 433	Multivariate Methods	6
Sta 434	Psychometrics	6
Sta 461	Operations Research	6
Sta 462	Decision Theory	6
Sta 463	Laboratory for Operations Research	3

Note: The three year degree programme is the same as the four year standard programme excluding the first year. However, the direct entry students are required to take G.S.101, G.S.103 and G.S.207 courses during their first year.

(b) M.Sc. and Ph.D. degrees in statistics

(i) Duration of the course: M.Sc. twelve calendar months
Ph.D. thirty six calender months

(ii) Entrance requirements

A good honors degree in which mathematics constitutes a substantial part.

(iii) Courses

The Department offers post-graduate programmes leading to M.Sc. and Ph.D degrees in statistics with majors in the following areas:

Stochastic modelling
Methods and Inference
Experimental and Applied Statistics
Operations Research and Industrial Statistics
Social Statistics

The available courses are as follows:

Courses	Title	Credit
Sta 511	Basic Probability Theory	6
Sta 512	Stochastic Processes	6
Sta 521	Linear Statistical Models and Multivariate Analysis	6
Sta 522	Statistical Inference	6
Sta 523	Non-parametric Methods	6
Sta 524	Advanced Bayesian Inference I	6
Sta 525	Advanced Bayesian Inference II	6
Sta 531	Advanced Biometrics	4
Sta 532	Psychometrics	4
Sta 533	Regression Analysis	3
Sta 541	Advanced Linear Programming	4
Sta 542	Optimization techniques	6
Sta 543	Theory of non-Linear Programming	6
Sta 544	Geometric Programming	4
Sta 545	Theory of Games	4
Sta 546	Stochastic Programming	4
Sta 547	Reliability	3
Sta 548	Decision Analysis	3
Sta 549	Network Analysis	4
Sta 550	Stock Control	4
Sta 551	Dynamic Programming	4
Sta 552	Simulation Techniques	6
Sta 553	Applications of Operations Research	4
Sta 554	Systems Analysis and Project Management	4
Sta 561	Operations Research III	3
Sta 562	Statistical Methods in Social Research I	6
Sta 563	Statistical Methods in Social Research II	6
Sta 564	Advanced Demography	3
Sta 565	Advanced Economic Statistics	3
Sta 566	Forcasting Socio-Economic Models	3

Major courses	Title	Credit
Sta 590	Seminar	-
Sta 591	M.Sc. Project	-
Sta 592	M.Sc. Dissertation	-
Sta 593	Ph.D Thesis	-

Application for entry: details about application forms are obtainable from the Director, School of Postgraduate Studies, University of Nigeria, Nsukka, Anambra State.

11. Fees

The fees are as follows for 1981/82 academic session:

	First degree and Certificate courses (₦)	Higher degree and P/G Diploma (₦)
Tuition (foreign students only)	500-1000	700-1250
Accomodation (on campus students)	(as applicable)	(as applicable)
Accomodation (on campus students)	90.00	260.00
Student Union	5.00	5.00
Laboratory (as applicable)	8.00	8.00
Examinations	20.00	20.00
Caution Deposit (new students only)	25.00	25.00
Extra fee (post-graduates only)	-	100.00

12. Fellowships

-

13. Living conditions

Enrolment and registration of the students by the Registrers Office as fully residential qualify such a student for residence on campus. This presupposes the student's guarantee to abide by hostel regulations. Students are also permitted to live out of the campus at their request.

14. Intake and output

The number of graduates from 1979/80 - 1983/84 by degree course are as follows:

Degree course	1979/80	1980/81	1981/82	1982/83	1983/84
B.Sc.	11	12	14	14	21
M.Sc.	-	1	2	1	-
Ph.D	-	-	-	-	-

1. Country : Nigeria

2. Name of the centre: Department of Demography and Social Statistics

3. Attached to : University of Ife, Ile-Ife, Nigeria

4. Address : Department of Demography and Social Statistics
University of Ife
Ile-Ife, Nigeria

Telephone: 220-2220
Telegram: UNIVARSITY, Ile-Ife

5. Name of the head of the Centre : Dr. Joshua A. Ajibola

6. Objectives

The objectives of the department are:

a) to provide courses of instruction in Demography and Social Statistics;

b) to conduct research into population and related social problems in Nigeria; and

c) to provide consultancy services.

The department offers courses leading to the Bachelor of Science (Social Science), Master of Science and Doctor of Philosophy degrees.

7. Brief Historical Background

The department was created out of the Institute of Population and Manpower Studies, at the beginning of the 1975-76 academic session. The Institute of Population and Manpower Studies was supported since October, 1968 with grants from the Population Council of New York.

8. Academic Staff

The department academic staff consists of:

One Professor
Three Senior Lecturers
Four Lecturers, and
Two Assistant Lecturers

One of the senior lecturers is the head of department.

9&10 Teaching Programme and Admission Requirements

The department offers the following programmes.

Bachelor of Science (Social Science) degree in Demography and Social Statistics
Master of Science degree in demography and statistics
Doctor of Philosophy degree in Demography and Social Statistics

a) B.Sc. (Social Science) degree in Demography and Social Statistics

i) Duration of the course: 3 years for those entering with GCE 'A' levels
4 years for those entering with GCE 'O' levels

ii) Number of places offered in 1984: 40, 1985, 50; 1986, 50.

iii) Entrance requirements

The minimum entry requirements for the B.Sc. (Social Science) degree are 5 credits which must include credits in Mathematics and English in the West African School Certificate or a pass at GCE 'O' level in five subjects which must include English and Mathematics. Candidates holding qualifications higher than those prescribed as minimum entry shall have their qualifications assessed and equated to equivalent courses in the relevant faculties..

iv) Courses and residential requirement

Students with GCE 'O' level or equivalent take a one year preliminary course and are joined by those with GCE 'A' levels or equivalent in their second year. Candidates for the degree programme are expected to take certain core courses in the fields of Demography and social statistics in addition to taking elective courses in other social sciences (e.g. Economics, Political Science, Sociology, Geography etc.) as well as in Computer Science, Agricultural Economics and Mathematics. To qualify for the degree, there is a minimum residential requirement of two academic years for each candidate.

b) M.Sc. degree in Demography and Social Statistics

i) Duration of the course: minimum of four terms

ii) Number of places offered in 1984: 7; 1985: 5; 1986: 8

iii) Entrance requirements

Candidates will be graduates of the University of Ife or other approved universities and will normally be expected to hold a second class upper (honours) degree in Demography or related subjects; though in exceptional cases, candidates with a lower qualification may be offered admission.

iv) Courses

The courses comprise advanced demographic techniques and methods as well as advanced social statistics. A research paper based on an individual effort of the student in addition to some supervision from an academic staff must be written. A minimum of 50% (Grade P) pass in each of the courses taken must be satisfied in order to be awarded the degree.

c) Ph.D degree in Demography & Social Statistics

i) Duration of the course: minimum of six semesters

ii) Number of places offered in 1985: 2; 1986: 2

iii) Entrance requirements

Candidates must have a masters degree in Demography of the University of Ife with an average of B+ in their final examination and in the Research paper. Candidates holding a Master's degree in Demography or related field from another approved University will be offered admission to the programme after fulfilling some conditions.

iv) Courses

The degree is based on research and is primarily designed for candidates who intend to take up teaching or research work in demography or Social Statistics.

11. Fees

Tuition fees are free for all Nigerian undergraduates. All Nigerian post-graduate students, foreign students (undergraduates and postgraduates) pay tuition fees. The rates are as follows per session (₦ = Naira).

i) Undergraduate non-Nigerian students

Undergraduate science ₦704

These fees include ₦20 deposit and ₦4 student union fees

ii) Postgraduate Nigerian student

Postgraduate Humanities ₦150

Postgraduate science ₦204

iii) Postgraduate foreign student

Natural science ₦1000

Hunanities ₦700

The above information or fees is subject to changes at a short notice in view of the prevailing Nigerian ailing economy.

12. Fellowships

The University does not offer full-time fellowships to students. Graduate fellowship can be given to postgraduate students for their support. In practice this means the students would be working for the department as well as being registered as students. Fellowships obtained from international funding agencies like the Rockefeller Foundation can also be utilized for the maintenance of the students while studying in the department.

13. Living Conditions

Accommodation can be obtained in the halls of residence at both undergraduate and postgraduate levels.

14. Intake and Output*

Year	Intake	Output
1982	30	24
1983	30	25
1984	35	27
1985	50	25
1986	50	20

*These figures were not provided by teaching programme.

1. Country : Nigeria

2. Name of the Centre: Department of Applied Statistics and Demography

3. Attached to : Faculty of Applied Physical Sciences

4. Address : Department of Applied Statistics and Demography
Anambra State University of Technology
Independence Layout
P.M.B. 01660
Enugu, Nigeria
Telephone: (042) 331-244 or 331-253
Telex: 51440 ASUTEC NG

5. Name of the Head of the Centre : Prof. G.E.O. Ogum

6. Objectives

The general objectives of the Department are to enable students:

a) Demonstrate a clear and logical way of thinking and expressing themselves mathematically/statistically;

b) Appreciate Statistics and relate it to their environment and daily lives or activities

c) Successfully teach the Statistics curriculum at the levels of the Secondary School, Colleges of Education, and Polytechnics;

d) Operate successfully as Statisticians in Government or Industry; and

e) Appreciate opportunities for research in Statistics in various fields of human endeavour.

7. Brief historical background

The Department of Applied Statistics and Demography was created during the 1985/86 academic year. Before its creation, a Department of Applied Mathematics and Statistics had existed for about four years.

8. Academic staff

The Department has three full-time staff made up of one professor, one senior lecturer and one lecturer. The Department also hires part-time lecturers from time to time.

9610 Teaching programme and admission requirements

The Department offers courses leading to the B.Sc. (Hons) degree in Applied Statistics and the M.Sc. degree in Applied Statistics.

a) B.Sc. (Hons) degree in Applied Statistics

i) Duration of the course: Four years for those candidates who enter by entrance examination and three years for direct entry candidates.

ii) Entry requirements

Candidates seeking admission to the Department by entrance examination must, in addition to the general university minimum entry requirement, have passed at the West African School Certificate examination or in an equivalent examination with credits in statistics or mathematics or additional mathematics and in at least one of the following: physics, chemistry and economics.

Direct entry candidates, in addition to the above, must possess the G.C.E. Advanced Level (or its equivalent) in two subjects which must include mathematics or statistics.

For enrolment in the Service Courses, students must have at least a pass in mathematics or statistics or additional mathematics in the G.C.E. Ordinary Level or equivalent examination.

iii) Courses

The courses are application oriented, and are designed in such a way as to give sound knowledge of the basic principles of statistics, and to emphasize the applicability of these principles to diverse fields of human endeavour: scientific, engineering, social, economic, medical, business, and industrial fields. The details of the courses taken in a standard four-year programme are given below:

Year	Semester	Course No.	Title of Course	Total credit hours	Lecture hours	Laboratory/ tutorial
1.		(A)	University Common Courses			
		ENG.101	English and Technical Writing I	2	1	3
		GSS.101B	Humanities	3	2	3
		(B)	Inter-Faculty Courses			
		BIO.101	Biology I	3	2	3
	I	EEC.111/ CSC.101	Computer Programming and Languages I	3	2	3
		(C)	Intra-Faculty Courses			
		MAT.101	Mathematics I (Algebra and Trigonometry)	3	2	3
		PHY.101	Physics I	3	2	3
		ICH.101	Chemistry I	3	2	3
		(D)	Departmental Course			
		STA.111	Probability I	3	3	-
			T O T A L	23	16	21
		(A)	University Common Courses			
		ENG.101	English and Technical Writing II	2	1	3
	II.	GSS.102	General Studies	3	2	3
		(B)	Inter-Faculty Courses			
		BIO.102	Biology II	3	2	3
		EEC.112/ CSC.102	Computer Programming and Languages II	3	2	3
		(C)	Intra-Faculty Courses			
		MAT.102	Mathematics II (Calculus I)	3	2	3
		PHY.102	Physics II	3	2	3
		ICH.102	Chemistry II	3	2	3
		(D)	Departmental Course			
		STA.121	Inference I	3	2	3
			T O T A L	23	15	24

Year	Semester	Course No.	Title of Course	Total credit hours	Lecture hours	Laboratory/ tutorial
2	I	(A)	Inter-Faculty Courses			
		ECO.211	Economics and International Trade	2	2	-
		MEC.211	Engineering Drawing I	3	2	3
		MEC.251	Workshop Processes and Practice I	3	2	3
		MME.150	Introduction to Engineering Materials Sciences	3	2	3
		(B)	Intra-Faculty Courses			
		MAT.203	Mathematics III (Intro. to Linear Algebra and Complex Variables)	3	2	3
		PHY.202	Modern Physics	3	2	3
		(C)	Departmental Courses			
		STA.212	Probability II	3	3	-
		STA.222	Inference II	3	2	3
			T O T A L	23	17	18
	II.	(A)	Inter-Faculty Courses			
		MEC.212	Engineering Drawing II	3	2	3
		MEC.252	Workshop Processes and Practice II	3	2	3
		(B)	Intra-Faculty Courses			
		MAT.204	Mathematics IV	3	2	3
		MAT.221	Numerical Methods	3	3	-
		(C)	Departmental Courses			
		STA.213	Probability III	3	3	-
		STA.223	Inference III	3	2	3
		(D)	Electives			
			(3 credits from mathematics or computer sciences)	3	3	-
			T O T A L	21	17	12

Year	Semester	Course No.	Title of Course	Total credit hours	Lecture hours	Laboratory/ tutorial
	(Students participate in three months industrial attachment during the long vacation)					
3	I.	(A)	Required Courses			
		STA.314	Probability IV	3	3	-
		STA.324	Inference IV	3	2	3
		STA.331	Sampling Theory and Methods I	3	3	-
		STA.351	Demography I	3	2	3
		STA.361	Algebraic Basis of Operations Research	3	3	-
		STA.341	Analysis of Variance I	3	2	3
		MAT.233	Calculus II	3	3	-
			T O T A L	21	18	9
	II.	(A)	Required Courses			
		STA.332	Sampling Theory and Methods II	3	3	-
		STA.352	Demography II	3	2	3
		STA.362	Operations Research I	3	2	3
		STA.333	Quality Control	3	2	3
			T O T A L	12	9	9
3	II.	(B)	Electives A minimum of 6 credits to be chosen from the following courses:			
		STA.342	Regression Analysis I	3	3	-
		STA.371	Biological Assays	3	3	-
		STA.312	Actuarial Mathematics	3	3	-
		MAT.323	Optimization Theory and Methods	3	3	-
		MAT.332	Abstract Algebra	3	3	-
		MAT.338	Intermediate Course on Differential Equations	3	3	-
			T O T A L	18	18	-

Year	Semester	Course No.	Title of Course	Total credit hours	Lecture hours	Laboratory/ tutorial
	(Students participate in three months industrial attachment during the long vacation)					
4	I.	(A)	Required Courses			
		STA.415	Probability V	3	3	-
		STA.425	Inference V	3	2	3
		STA.426	Multivariate Analysis I	3	3	-
		STA.443	Design and Analysis of Experiments I	3	3	-
		STA.453	Demography III	3	2	3
		STA.417	Time Series Analysis	3	3	-
		STA.491	Project I	3	3	-
			T O T A L	21	19	6
4	II.	(A)	Required Courses			
		STA.416	Distribution Theory	3	3	-
		STA.418	Elementary Stochastic Processes	3	3	-
		STA.427	Multivariate Analysis II	3	3	-
		STA.428	Non-parametric Methods	3	3	-
		STA.492	Project II	3	3	-
		STA.493	Departmental Seminar	1	-	3
			T O T A L	16	15	3
4	II.	(B)	Elective Courses A minimum of 6 Credits to be chosen from the following courses:			
		STA.444	Analysis of Variance II	3	3	-
		STA.445	Regression Analysis II	3	3	-
		STA.472	Statistical Methods in Epidemiological Studies	3	3	-
		STA.446	Design and Analysis of Experiments II	3	3	-

Year	Semester	Course No.	Title of Course	Total credit hours	Lecture hours	Laboratory/ tutorial
4	II	(B) (cont'd)	Elective Courses			
		MAT.333	Advanced Calculus	3	3	-
		MAT.387/ CSC.554	Micro-Computer Applications	3	3	-
		MAT.411	Group Life Insurance and Pension	3	3	-
		MAT.311	Mathematics of Finance and Life Insurance	3	3	-
			T O T A L	24	24	-

Note: The three-year degree programme is essentially the same as the four-year programme excluding the first year.

b) M.Sc. degree in Applied Statistics

i) Duration: Twelve calendar months

ii) Entry Requirements

A good honours degree in Statistics or Mathematics, or any other discipline in which Mathematics forms a substantial part.

iii) Courses

The programme is designed to enable students specialize in any of the following areas:

Multivariate Analysis
Industrial Statistics
Biostatistics
Social Statistics
Stochastic Processes
Experimental Design
Demography

The programme will take off in September 1986.

11. Fees

The fees are as follows for the 1995/96 academic year:

FEES SCHEDULE

Fees payable by old undergraduate students	Nigeria students (₦)*	Foreign students (₦)*
1. Tuition fee	-	500.00
2. Examination fee	50.00	50.00
3. Student Union Fee	10.00	10.00
4. Sports fee	20.00	20.00
5. Laboratory/Workshop fee	120.00	120.00
6. Property Maintenance fee	25.00	25.00
7. Library fee	100.00	100.00
8. Development fee	50.00	50.00
9. General Services fee	25.00	25.00
	400.00	900.00

*₦ = Naira

Additional fees payable by new students

(a) Registration fee	20.00	20.00
(b) Non-refundable acceptance fee	50.00	50.00
(c) 1/ Caution fee	25.00	25.00
	95.00	95.00

1/ Refundable at the end of the undergraduate work.

Fees payable by postgraduate students	Nigeria (₦)	Foreign (₦)
1. Tuition fee	-	1,000.00
2. Examination fee	100.00	100.00
3. Graduate student union fee	10.00	10.00
4. Sports fee	20.00	20.00
5. Laboratory/Workshop fee	150.00	150.00
6. Property maintenance fee	25.00	25.00
7. Library fee	100.00	100.00
8. Development fee	50.00	50.00
9. General services fee	25.00	25.00
10. Registration fee	20.00	20.00
11. Non-refundable acceptance fee	50.00	50.00
12. Caution deposit	25.00	25.00
13. Research fee	200.00	200.00
Total fees for the year	775.00	1,775.00

12. Fellowships

-

13. Living conditions

The University is non-residential. However, the University assists students in securing off-campus accommodation.

14. Intake and output

The enrolment of students during the 1985/86 session was as follows:

Year 1 8
Year 2 10
Year 3 1
Year 4 9

The nine students in year 4 will graduate in June 1986.

1. Country : Nigeria

2. Name of the centre : Department of Business Education

3. Attached to : Gumel Advanced Teachers' College

4. Address : Department of Business Education
Gumel Advanced Teachers' College
P.M.B. 3143
Kano, Nigeria

5. Name of Head of Director : Mr. David C. Thula

6. Objectives

The objective of the department of Business Education is to teach statistics courses that will lead to the Nigerian Certificate in Education (N.C.E.). This means teaching those who teach statistics in secondary schools in Nigeria.

7. Brief historical background

The Department of Business Education, Gumel Advanced Teachers' College (G.A.T.C.), was established in October 1982. Before then, there was already in existence the economics section of the department. Due to the take over of the Kano State College of Education by the Kano State Institute for Higher Education in October 1983, the Department of Business Education of that college was transfered to G.A.T.C. to form our present fully developed Department of Business Education. The first batch of students who graduated in July 1985, are currently teaching statistics in secondary schools around the country.

8. Academic staff

Presently, the department has:

10 permanent lecturers, and
3 youth service corps lecturers

9. Teaching programme

Courses offered in statistics by the department consist of the following:

Year II: (i) Nature and role of statistics

(ii) Methods of data collection:

- Sources of data
- Documented sources
- Mail questionnaire method and interview
- Questionnaire design and administration

(iii) Sampling methodology

- Simple random sampling, systematic, stratified, quota and cluster sampling
- Populations and sample surveys

(iv) Data organisation and presentation

- Concept of variables, raw data and organised data
- Characteristics of organised scores
- Frequency and frequency distribution, class intervals and class boundries, general rules of forming frequency distribution
- Graphic data organisation and presentation - the histogram, charts, pictograms, the frequency polygon and the ogive, tables, graphs and diagrams

(v) Measures of location

The range, the mean deviation, quartiles, standard deviation, variance and coefficient of variation, thier importance and uses.

Year III: (i) Relative measures of dispersion - skewness and kurtosis

(ii) Correlation and linear regression analysis:

Concepts of correlation, bivariate distribution and measurements of correlation (Scatter diagram, Pearsons product-moment, Spearman's rank order and the least squares method).

(iii) Time series analysis

Classification of movements, measurement of trend: freehand, semi-average, moving average and least squares method.

(iv) The normal curve

Elementary probability theory, binomial distribution, hypotheses formulation and some tests of statistical hypotheses.

(v) Index numbers

Constructional problems, selection of method of computation, advantages and disadvantages, index number construction (the simple aggregative index, value/price relative indices, weighting and weighted indices).

10. Admission requirements

Entry requirements include:

(i) General Certificate of Education (Ordinary level) or the West African School Certificate with at least four passes at credit level and a pass in English. (Two of the credits must be in the major subjects to be studied)

(ii) Teachers grade II certificate with at least four credits two of which must be in the major subjects to be studied.

11. Fees

None Kano State indigenes pay two thousand Naira (₦2000.00) school fees.

12. Fellowship

-

13. Living conditions

All students live in hostels in the campus.

14. Intake and output (academic)

Year	Intake	Output
1994/95	40	40
1995/96	60	57

1. Country : Nigeria

2. Name of the Centre: Department of Mathematics and Science

3. Attached to : School of Applied Arts and Science

4. Address : Department of Mathematics and Science
School of Applied Arts and Science
Federal Polytechnic
P.M.B. 55
Bida, Niger State

Telegraphic address: Federal Polytechnic, Bida

5. Name of the Head of the Centre : Mr. S.A. Onuoha

6. Objectives

The main objective of the department is to prepare students for a career as middle level manpower statisticians. To achieve this objective, courses are offered in key areas of statistics such as Probability Theory, Statistical Theory, Experimental Design and Analysis, Statistical Methods, Sampling Theory, Introduction to Data Processing Techniques, Computer Programming, Decision Theory, Estimation Theory, Demography, Quality Control, Economic and Social Statistics, Laboratory Field work and the research project provides opportunity to apply the theory learned in the classroom.

7. Brief historical background

The statistics section is an integral part of the Department of Mathematics and Science. The Department itself was created out of the Department of Science and Liberal Arts at the beginning of 1981/82 academic session.

8. Academic staff

The statistics unit (Section) of the Department of Mathematics and Science has the following academic staff. Five lecturers made up of the followings:

Three grade one lecturers
One grade two lecturers
One assistant lecturer

9810 Teaching programme and admission requirements

In addition to other courses, the Department runs courses leading to the National Diploma in Statistics. The duration of the National Diploma in Statistics is two academic years made up of four semesters (two semesters each) with three months compulsory Students' Industrial Work Experience Scheme (SIWES) starting from 1st August of every academic session.

Entry requirements

Candidates must have obtained at least four credits in West African School Certificate (WASC)/General Certificate of Education (GCE) ordinary level (O/L) in not more than two sittings. In addition to the above general requirement, candidates must have credits in Mathematics and Economics and at least a pass in English language.

Courses

Students are required to take the following courses:

Year One

Semester I

Course Code		Lecture Hours	Practical Hours	Units
STA 111	Collection, Presentation and Compilation of Statistical Data	2	3	3
STA 121	Algebra	2	0	2
STA 131	Calculus	2	0	2
STA 141	Introduction to Data Processing Equipment	1	0	1
STA 161	Probability Theory I	2	0	2
LAD 102	Use of English	2	0	2
LAD 131	General Studies	2	0	2
ECN 121	Micro - Economics	2	0	2
PHE 102	Physical Education	0	2	0
	Total	15	5	16

Semester II

STA 112	Statistical Methods	4	0	4
STA 113	Sampling Theory	2	3	2
STA 122	Linear Algebra	2	0	2
STA 123	Analytic Geometry and Trigonometry	3	0	3
STA 132	Calculus II	2	0	2
STA 142	Introduction to Computer Programming	1	3	2
LAD 112	Communication	3	0	2
GNS 131	General Studies	3	0	3
PHE 102	Physical Education	0	2	3
	Total	20	8	23

Semester III

Course Code		Lecture Hours	Practical Hours	Units
STA 214	Decision Theory	3	0	3
STA 243	Introduction to Fortran IV Programming	2	3	3
STA 244	Introduction to Programming Models	2	0	2
STA 251	Demography	3	0	3
STA 262	Probability Theory II	3	0	3
STA 271	Sampling Techniques	1	3	2
STA 281	Economic and Social Statistics	2	0	2
ECN 122	Macro-Economics	2	0	2
PHE 201	Physical Education	0	2	0
	Total	18	8	20

Semester IV

STA 233	Advanced Calculus and Vector Analysis	3	0	3
STA 245	Further Computer Programming Techniques	2	3	3
STA 246	Introduction to Operations Research (linear programming)	2	0	2
STA 252	Quality Control	4	0	4
STA 263	Estimation Theory	2	0	2
STA 272	Experimental Design and Analysis	2	3	3
STA 291	Project	0	8	2
PHE 202	Physical Education	0	2	0
	Total	15	16	19

Plans are underway to introduce a Higher National Diploma Programme for the training of high level manpower statisticians.

11. Fees

Tuition - Free

Other fees - Naira (₦) 190 (some fees in this cover the duration of the programme).

12. Fellowships

13. Living conditions

Most of the students live in halls of residence in the Polytechnic. Students are also allowed to live out of the campus if they are permitted by the Polytechnic.

14. Intake and output

The number of National Diploma graduands from 1981/82 - 1984/85 are as follows:

Session	Distinction	Upper Credit	Lower Credit	Pass	Total
1981/82	-	10	16	-	26
1982/83	-	6	13	-	19
1983/84	-	4	11	1	16
1984/85	-	8	9	-	17
Total	-	28	49	1	78

1. Country : Nigeria

2. Name of the Centre: Department of Mathematics

3. Attached to : School of Science and Science Education

4. Address : Department of Mathematics, Abubakar Tafawa Balewa College
Ahmadu Bello University
P.M.B. 0248
Bauchi, Nigeria

5. Name of the Head of the Centre : Prof. E.P. Ushelia

6. Objective

The objective of the programme is to train professional mathematicians who can address themselves to the societal and industrial problems of the current technological age. The training programme is intended to be broadly based, covering all aspects of mathematics including Statistics and Computer Science: thus the first three years of study are common for all students. During the last two years students have the option of choosing one of three specialisations:

a) Mathematics, leading to the award of Bachelor of Science (Honours) degree.

b) Computer Science, leading to the award of Bachelor of Science (Honours) degree;

c) Statistics, leading to the award of Bachelor of Science (Honours) degree.

7. Brief historical background

The department of Mathematics is part of the School of Science and Science Education that came into existence when the former Federal University of Technology, Bauchi was established in 1981. The status of the department remained unchanged despite the merger with Ahmadu Bello University with effect from 1st. October 1994.

8. Academic staff

The departmental staff strength is nine, composed of one Professor (who is also a staff of the Physics Department), one Senior Lecturer, one Principal Systems Programmer, three Lecturers, one Assistant Lecturer and two Graduate Assistants. The areas of specialisation of staff range from Pure Mathematics through Applied Mathematics to Computer Science and Statistics.

3.10 Teaching programme and admission requirements

i) Teaching programme and industrial attachment

The department offers a Bachelor of Science (B.Sc.) (Hons) degree programme with specialisation in either Mathematics, Computer Science or Statistics. The area of specialisation depends on the student's admission status, however a student admitted in one area may be allowed to change to another area provided the student's performance during the first three years in the area related subjects is very good.

Students enrolled in the degree programmes for Computer Science or Statistics are required to proceed on industrial attachment after satisfying the minimum departmental requirements for that programme. The duration of industrial attachment is normally six months following the 7th Semester of residence. Before proceeding on industrial attachment, students must normally have completed and passed all scheduled courses, so that on return to the School, graduation may be possible at the end of the following session.

Candidates enrolled in the B.Sc. (Hons.) degree programme in Mathematics will not be required to proceed on industrial attachment. Instead they will be required to take more courses specifically designed for them during the 8th semester when the other students are away on industrial training.

ii) Entrance requirements and duration of the programme

The duration of the programme is five or four years, depending on the student's academic status.

a) Five-year integrated degree programme (West African School Certificate (WASC) /General Certificate of Education (GCE) candidates)

Candidates must satisfy all university entry requirements including the required five credits in relevant papers, all obtained at not more than two sittings. The qualifying subjects must include a credit pass in English and Mathematics. A credit pass in Physics or additional Mathematics or further Mathematics would be an advantage.

b) Four-year degree programme (direct entry candidates)

Candidates admitted direct would normally enrol in the second year of the programme. To qualify for direct entry, candidates must satisfy the WASC/GCE requirements set out under (ii)(a) above. In addition, they must have passes at principal level in the H.S.C., G.C.E. Advanced Level, I.J.M.B. or equivalent in at least two subjects, one of which must be pure Mathematics or applied Mathematics or pure and applied Mathematics (combined). Passes in the two subjects must be obtained at one sitting.

iii) Courses

Instruction is by courses evaluated in terms of course units. A course unit is defined as a series of lectures lasting a semester of 15 weeks, of one-hour lecture/tutorial per week or three-hour laboratory practical classes per week or an equivalent amount of other assigned study or practical experience or any appropriate combination of these.

There are five levels of undergraduate courses, each level representing the year for the degree programme and numbered as follows:

100 - 199 for first degree year or 100 level
200 - 299 for second " " 200
300 - 399 for third " " 300
400 - 499 for fourth " " 400
500 - 599 for fifth " " 500

Course numbers are prefixed by a character code indicating the area of specialisation. Thus 'MTH', 'CS' and 'ST' stand for courses in Mathematics, Computer Science and Statistics respectively.

Apart from courses in the areas of specialisation, there are also courses in General Studies: these do not contribute towards degree classification but are compulsory for all students of the College and must be passed before graduation. The General studies courses are prefixed by the three letter code 'GNS'. Unless otherwise indicated, all courses are compulsory.

The plan of study in Statistics is detailed as follows:

100 - Level

1st Semester

Course Code	Title	Units
MTH 111	Elementary Algebra I	3
MTH 112	Calculus I	3
MTH 113	Solid Geometry	2
PHY 101	Introductory Mechanics and Properties of Matter	4
GNS 101	Use of English Language I	2
Either		
PHY 231	Introductory Electricity & Magnetism	4
Or		
CHM 101	Foundation Chemistry I	4
Or		
GEO 101	Introductory Geology I	3

2nd Semester

Course Code	Title	Units
MTH 121	Elementary Algebra II	4
MTH 122	Calculus II	4
MTH 123	Elementary Theory of Sets	2
PHY 102	Introductory Heat & Sound	4
GNS 102	Use of English Language II	2
Either		
CHM 102	Foundation Chemistry II	4
Or		
GEO 102	Introductory Geology II	3

200 - Level

1st Semester

MTH 211	Linear Algebra I	3
MTH 212	Mathematical Methods I	3
MTH 213	Analysis I	3
MTH 214	Mechanics I	2
CS 231	Introductory Computer Science I	3
ST 271	Introductory Statistics & Elementary Probability	4
GNS 201	Information Science	2

2nd Semester

MTH 221	Linear Algebra II	3
MTH 222	Mathematical Methods II	3
MTH 223	Analysis II	3
MTH 224	Mechanics II	2
CS 241	Introductory Computer Science II	4
ST 231	Descriptive Statistics	3
GNS 202	African History & Culture	2

300 - Level

1st Semester

MTH 311	Abstract Algebra I	3
MTH 312	Mathematical Methods III	3
MTH 313	Analysis III	3
MTH 337	Numerical Analysis I	3
CS 331	Data Structures	3
ST 371	Probability Theory I	3
GNS 301	Science, Technology & Society	2

2nd Semester

Course Code	Title	Units
MTH 321	Abstract Algebra II	3
MTH 323	Complex Analysis I	3
MTH 346	Operations Research I	4
MTH 347	Numerical Analysis II	3
CS 341	Theoretical Computer Science	4
ST 321	Time Series & Index Number	3

400 - Level

1st Semester

ST 471	Probability Theory II	4
ST 472	Statistical Inference	4
ST 473	Introduction to Stochastic Processes	3
ST 474	Applied Statistics	3
MTH 437	Operations Research II	3

2nd Semester

Compulsory Industrial Attachment

500 - Level

1st Semester

ST 599	Project	4
ST 571	Non-Parametric Inference and Sequential Methods	3
ST 572	Linear Models and Regression Analysis	3
ST 573	Design & Analysis of Experiments	3
ST 574	Sampling Techniques	3
ST 575	Statistical Quality Control	2

2nd Semester

ST 599	Project	4
ST 581	Advanced Probability Theory	4
ST 582	Decision Theory	3
ST 583	Multivariate Analysis	4
ST 584	Simulation and Monte Carlo Methods	2

One (1) elective 3

11. Fees

Tuition fees are free for all Nigerian undergraduates: foreign students pay Naira (₦) 1,050.00 per session. Furthermore, the following charges are imposed on all students.

Accommodation (if available)	₦20.00
Games	₦ 5.00
Union dues	₦ 4.00
Caution fees (for freshers only)	₦20.00
Feeding	(pay as you eat)

12. Fellowships

The College does not offer fellowships to students. However, students can obtain fellowships from other organisations to enable them study in the department.

13. Living conditions

Subject to availability of accommodation, students may be accommodated in the halls of residence on the basis of first - registered first - accommodated. Students not accommodated on campus will have to look for accommodation elsewhere.

14. Intake and output

The department is yet to graduate students in any of the areas of specialisation. It is anticipated that the first set of graduands would emerge at the end of the 1985/86 session.

1. Country : Swaziland

2. Name of the centre: Department of Statistics

3. Attached to : Faculty of Social Science
University of Swaziland

4. Address : Department of Statistics
University of Swaziland
Kwaluseni Campus
P/B Kwaluseni
Swaziland

Telephone: Matsapa 34011/2/3
Telex: 2087 WD
Telegram: UNISWA

5. Name of the Head of the Centre : Ms. Elizabeth Lule

6. Objectives

The objectives of the Department are to:

- Expose and train students in the theory and applications of statistical techniques or methodology for the collection, presentation, analysis and interpretation of numerical data;

- Provide service courses for other departments within the Faculty of Social Science and the Faculty of Science;

- Participate in Research so as to improve research capability of staff and students;

- Liaise with the Central Statistics Office in the training of their personnel and work jointly on national projects or surveys;

- Provide consultancy/advisory services to government and staff members in the University; and

- Supervise and monitor part-time courses in statistics through the Department of Extra Mural Services.

7. Brief Historical Background

Statistics has been taught since the incention of the University of Botswana, Lesotho and Swaziland (UBLS) in 1964. With the growth of the University, the number of established posts has been increased to four to accommodate the increasing number of students requiring training in statistics.

8. Academic staff

The Department has five academic staff members.

9&10. Teaching Programme and Admission Requirements

The Department offers a Bachelors degree programme in statistics. The programme is of four years duration.

a) Admission Requirements

i) A Cambridge Overseas School certificate in the first or second division with credit in English language and a grade 7 or better in mathematics;

ii) A general certificate of Education provided that the candidate has taken and passed the examination at Ordinary Level in at least six subjects in not more than two sittings;

iii) Mature age entry.

b) Courses

Year	Course number	Title	Semester
First	ST 102	Elementary Statistics	2
Second	ST 203	Principals of Demography	1
	ST 204	Demography in Swaziland	2
	ST 210	Statistical Methods in Economics	2
	ST 221	Introduction to Statistics I	1
	ST 222	Introduction to Statistics II	2
	ST 223	Introduction to Statistics for Science students	1
Third	ST 301	Theory of Statistics	1&2
	ST 305	Sample Survey Theory	1
	ST 307	Operations Research	1
	ST 309	Demographic Methods	1
	ST 401	Research Methods and Project	First half of first semester and thereafter work on student projects
Fourth	ST 403/ ECON 407	Introduction to Econometrics	1
	ST 404	Experimental Design	2
	ST 408	Statistical Methods in Quality Control	2
	ST 410	Indirect Estimation Techniques in Demography	2

11. Fees

The fees for the Bachelors degree programme are E600 per academic year for nationals and E2650 per academic year for non-nationals.

12. Fellowships

-

13. Living Conditions

There are two campuses in the University:

a) Kwalusen Campus - All buildings are in a landscape setting and are of modern design. Sporting and leisure facilities exist. There are a total of 723 beds in the student hostels.

b) Luyengo (Faculty of Agriculture) Hostel accommodation exists for 300 students with all its academic staff living on campus.

No special accommodation exists for married students.

14. Intake and Output

Enrollment figures were not provided separately for the department of statistics.

21. Consultancy/Advisory Services

Staff members serve on various committees offering advisory services i.e. National Co-ordinating Committee or Civil Registration Technical Advisory Committee on the 1986 Population Census.

1. Country : Tanzania

2. Name of the centre: Department of Statistics

3. Attached to : Faculty of Arts and Social Sciences
University of Dar-es-Salaam

4. Address : P.O. Box 35047
Dar-es-Salaam
Tanzania

Telephone: 49192
Telegram : UNIVERSITY, DAR-ES-SALAAM

5. Name of the Director : Dr. C.L. Kamuzora

6&7. Objectives and Brief Historical Background

The Department was established in 1967 to cater for the statistical (and mathematical) needs of students of the social and natural sciences, business and management. This means that a student takes a combination of one of these fields and statistics or takes mainly statistics as his field of specialisation. There were no qualified statisticians in Tanzania in 1967 as a result the programme was manned by expatriate teaching staff. Staff development, particularly since 1971, has resulted into the current level of staff of 5 Ph.Ds and 4 MAs. The declining availability of scholarships resulted in the slow development of staff. These staff had to be trained overseas. Reliance on expatriate teaching staff has therefore continued up to the present time. Adverse economic conditions have however discouraged attraction of the expatriates to the extent that established positions have to date not all been filled.

8. Academic Staff

In 1985, the total number of established teaching staff posts was 17. The staff position was 14 out of which 6 were still on training.

9. Teaching Programmes

There are currently three programmes which are run by the department namely the undergraduate degree programme in statistics, the masters degree programme in statistics and the masters degree programme in demography (jointly with departments of geography, economics and sociology).

a) Undergraduate degree programme in statistics

i) Duration of the course: Three years

ii) Number of places offered, 1986/87: -

iii) Courses (extracted from the 1979/80 calendar of the University of Dar-es-Salaam)

	First year	Number of units
DS 100:	Development Studies	2
EC 100:	Introductory Political Economy	2
ST 100:	Elementary mathematics & Statistics	2
	OR	
ST 101:	Elementary Statistics	2
MA 100:	Accountancy I	2
and two of the following options:		
PS 100:	Introduction to politics	2
SO 100:	Elements of Social Development	2
GE 100:	Background to physical resources	2
HI 100:	Problem of African history	2
A language SW 100	Swahili	2
	or LL 110 English	2
	or LL 150 French	2
	or LL 160 French	2
ST 102	Mathematics for social science students (compulsory for those taking ST 101)	-
	Second year	
DS 200:	Development Studies	2
ST 200:	Theory of statistics	2
ST 201:	Mathematics II	2
ST 202:	Datamatics I	2
Two of the following:		
ST 209:	Demography	2
EC 201:	Economic Statistics and Quantitative Methods	2
MA 200:	Accountancy II (managerial accounting)	2
EC 200:	Economic Theories	2
	Third year	
ST 300:	Theory of statistics	2
ST 301:	Operations research	2
ST 302:	Sampling Theory and Quality Control	2

Third year (cont'd)		Number of units
Two of the following:		
ST 303:	Statistical methods of econometrics	2
ST 304:	Design of experiments, analysis of variance and regression	2
ST 305:	Bayesian techniques and statistical decision theory	2
ST 306:	Datamatics II	2
ST 201:	Financial management	2
EC 300:	Economic theories	2

b) Masters degree programme in statistics

i) Duration: 18 months

ii) Number of places offered, 1986/87: -

iii) Courses
(course list was not available)

c) Masters degree programme in demography

i) Duration: -

ii) Number of places offered, 1986/87: -

iii) Courses
(course list was not available)

10. Admission Requirements

i) Undergraduate degree programme

- A credit in high school mathematics or equivalent

ii) Masters degree programme

- An honours first degree in statistics

iii) Masters degree in demography
(no details available)

11. Fees

Fees include residence

- Undergraduate Shs. 54,000/- (US$3,100 per year)
- Masters Shs. 86,000/= (US$8,200 per year)

12. Fellowships

-

13. Living Conditions

Most undergraduate students are housed at the campus while most of the postgraduate students live off-campus.

14. Intake and Output

Normally 30 students are enroled each year for the undergraduate degree and 3 for masters degree.

16. Link with other Institutions

There is a link with the Department of Social Statistics, University of Southampton.

20. Research Activities

These depend on field of specialisation of existing staff which are: demography, econometrics, operational research, sampling, design and analysis of experiments, statistical theory and probability.

22. Student follow-up programmes

These do not exist.

FRENCH-SPEAKING CENTRES

1. Country : People's Republic of Benin

2. Name of the Centre: "Institut National d'Economie (INE)"

3. Attached to : "Universite Nationale du Benin"

4. Address : B.P. 03 - 1079 Cotonou, People's Rep. of Benin
Telephone: 30-05-14

5. Name of the Head of the Centre : Felix Essou DANSOU

6. Objectives

The "Instiut National d'Economie" is a public cultural and scientific establishment, endowed with moral personality and financially autonomous. It is attached to the National University of Benin. It is placed under the supervision of the Minister of Higher Education.

The "Institut National d'Economie" is aimed at:

- offering higher education at the National University of Benin in the fields of statistics, planning, management, trade, computer science, etc.,

- participating in the organisation and implementation of economic and management of research programmes,

- participating in the re-training and vocational training of middle and higher level staff who are to work in the economic, management, statistical and planning sectors, etc.,

- contributing to the evaluation and recognition, in relation with the National Office of Equivalences of foreign certificates in reference to similar certificates in Economics issued in the People's Republic of Benin,

- publishing scientific documents resulting from research work carried out within the framework of the "Institut National d'Economie",

- preparing the various professional and direct competitive examination, the production of documents, conduct of surveys or appropriate courses.

The "Institut National d'Economy" may also be called upon to offer technical assistance or consultancy services to Governments, public establishments, joint economic ventures and private enterprises.

7. Brief Historical Background

The "Institut National d"Economie" started its activities on 15 February 1980 with the Cycle I programme in the following branches:

- Statistics,
- Planning,
- Enterprise Management, and
- Bank Management

The Computer science management branch was opened at the beginning of 1983/84 academic year with financial support from the Intergovernmental Bureau of Informatics (IBI) based in Rome. The Cycle II opened only at the beginning of 1984/85 academic year. This cycle comprises the following branches:

- Statistics,
- Planning,
- Management of Enterprises,
- Bank Management, and
- Trade

B. Academic staff

At the beginning of 1986/87 academic year, the "Institut National d'Economie" had 127 academic staff members were as follows:

- 8 Permanent Lecturers;

- 45 Permanent Professors and Lecturers from the Faculty of Law, Economics and Political Science, Arts and Human Sciences Faculty and from the Faculty of Technical Sciences of the National University of Benin; and

- 74 visiting lecturers from the Central Government and units of production.

C. Organization of the training

The teaching programme of the "Institut National d'Economie" includes:

- theoretical studies common to all the options and branches, relating to all the basic disciplines;

- theoretical and practical studies specific to each option;

- lectures, techniques and professional practices related to each branch.

These courses can be given in the form of lectures, workshops, conferences and seminars. The training can be supplemented by tutorials, practical applications and visits. The courses at the "Institut National d'Economie" have been arranged in two cycles:

- Cycle I lasting 3 (three) years leading to "Techniciens Superieur" grade;

- Cycle II lasting 2 (two) years leading to "Administrateur or Ingenieur-Economist" grade.

The courses cover the branches grouped into options as follows:

- Option I : Enterprise Management, Bank Management, Computer Management, Commercial Management

- Option II : Statistics, Planning, Demography, etc.

Other options and branches can be created where necessary by a decision of the Academic authorities of the National University of Benin. At the end of Cycle I and Cycle II, the students are compelled to undergo about 6 (six) months' practical training in the production departments and units and to write an end-of-course memoire. The training programme for the Statistics branch is as follows:

9.1 Teaching programme of Cycle I (Statistics branch)

Firs year

Subjects common to all branches, all options

Serial Number	Subject	Number of hours	Weight	Observation*
01	Political Economy	80h	04	Course+L.W.
02	Written and oral expression techniques	40h	02	Written + oral
03	Institutional framework of the economic life	40h	02	
04	Commercial English	80h	02	Written + oral
05	Computer Science I	40h	02	
06	History and Economic Facts	40h	02	
07	National Accounting	40h	04	To be programmed from the 2nd period
	T o t a l	350h	18	

Subjects common to Option II (Statistics and Planning)

Serial Number	Subject	Number of hours	Weight	Observation
01	Mathematics I	120h	06	Course + L.W.
02	Descriptive Statistics	100h	05	Course + L.W.
03	General Accounting	80h	02	Course + L.W.
04	Probability	60h	03	Course + L.W.
05	Numerical Calculation	20h	01	
06	Economic Geography	40h	02	
07	Demography I	60h	03	
08	Introduction to General Planning	60h	03	
	T o t a l	520h	25	

*L.W. = Laboratory work

Second Year

Subjects Common to Option II (All Options, All Branches)

Serial Number	Subject	Number of hours	Weight	Observation
01	Economic analysis	80h	03	Course + L.W.
02	Monetary Economics	80h	03	Course + L.W.
03	Written and Oral Expression techniques	20h	02	Written + oral
04	Commercial English	40h	02	Written + Oral
05	Public Finance	80h	03	
06	Computer Science II	40h	02	
07	International Economics	60h	03	
	T o t a l	360h	18	

Subjects common to Option II (Statistics & Planning)

Serial Number	Subject	Number of hours	Observation	
01	Mathematics II	120	06	Course + L.W.
02	Mathematical Statistics	80h	05	Course + L.W.
03	Introduction to projects evaluation	60h	03	Written + oral
04	General Accounting II	40h	02	
05	Demography II	40h	02	
06	Economic Calculation	30h	01	
07	Mathematics of Finance	30h	01	
	T o t a l	400h	20	

Branch: Statistics

Serial Number	Subjects	Number of hours	Weight	Observation
01	Sample Survey (Theory & Practice	40h	03	
02	Data Collection & Processing	40h	03	
	T o t a l	80h	06	

Third Year

Subjects common to all Options - All branches

Serial Number	Subject	Number of hours	Weight	Observation
01	Development Economics	60h	03	
02	Economic Fluctuation and Growth	60h	03	
03	Socialist Economy	40h	02	
04	Computer Science III	40h	02	
05	Labour Law and Social Security statistics	40h		
06	Practical course	6 months		
	T o t a l	240h	12	

Subjects common to Option II (Statistics, Planning & Demography)

Serial Number	Subject	Number of hours	Weight	Observation
01	Introduction to Data Analysis	30h	02	
02	Industrial and Transport Statistics	20h	01	
03	Agricultural Statistics	20h	01	
04	Foreign Trade Statistics	20h	01	
05	Price Statistics & Household Budget	20h	01	
06	Health Statistics	10h	01	
07	Education statistics	20h	01	
08	Labour and Employment Statistics	20h	01	
09	Financial Statistics	10h	01	
10	Organisation of Statistical services	10h	01	
	T o t a l	180h	11	

Branch: Statistics

Serial Number	Subject	Number of hours	Weight	Observation
01	Introduction to Data Analysis	30h	02	
02	Industrial and Transport Statistics	20h	01	
03	Agricultural Statistics	20h	01	
04	Foreign Trade Statistics	20h	01	
05	Price Statistics and Household budget statistics	20h	01	
06	Health Statistics	20h	01	
07	Education Statistics	20h	01	
08	Labour and Employment Statistics	20h	01	
09	Financial Statistics	10h	01	
10	Organisation of Statistical Service	10h	01	
	T o t a l	180h	11	

9.2 Cycle II Teaching Programme (Statistics)

First year

Common subjects, all branches, all options

Serial Number	Subject	Number of hours	Weight	Observation
01	International Economic Organisations	40h	02	
02	International Environment and Development	20h	01	Seminar
03	Computer Science and Development	20h	01	Seminar+ L.W.
04	Management of Human Resources	30h	02	Courses + L.W.
05	Techniques of written and oral expression	30h	02	Written + oral
06	Correspondence and Administrative writing	30h	02	Written + oral
07	Commercial English	40h	02	Written + oral
	T o t a l	210h	12	

Subjects common to Option II (Statistics & Planning

Serial Number	Subject	Number of hours	Weight	Observation
01	Operations Research I	40h	03	Courses + L.W.
02	Topology and Analysis	90h	05	Courses + L.W.
03	Convexity and optimisation	40h	05	Courses + L.W.
04	Computer science	50h	03	Courses + L.W.
05	Micro-Economics	60h	04	Courses + L.W.
06	Macro-Economics	60h	04	Courses + L.W.
07	National Accounting	60h	04	Courses + L.W.
	T o t a l	400h	28	

Branch : Statistics

Serial Number	Subject	Number of hours	Weight	Observation
01	Probability theory	70h	05	Courses + L.W.
02	Mathematical Statistics	70h	05	Courses + L.W.
03	Demographic prospects	40h	03	Courses + L.W.
04	Sample surveys practice and processing	30h	02	
05	Development Statistics	40h	04	Courses + L.W.
06	Economics	60h	05	Courses + L.W.
	Total	310h	24	

Second year

Common subjects, all Options, all Branches

Serial Number	Subject	Number of hours	Weight	Observation
01	International Economic System and Development	40h	03	
02	Theory of Development crisis	40h	03	
03	Budgetary techniques and public finance	40h	03	Courses + L.W.
04	Commercial English	40h	03	Written + oral
05	International finance and method of financing	20h	02	Seminars Six months
06	Practical course			
	T o t a l	180h	14	

Subjects common to Option II (Statistics and planning)

Serial Number	Subjects	Number of hours	Weight	Observation
01	Programming methods and Graphic theory	50h	03	Courses + L.W.
02	Growth and Development mathematical models	40h	02	
03	Applied economic calculation of public enterprises	20h	02	
04	Management and financial analysis	30h	02	Courses + L.W.
05	Theory of games	30h	02	
06	Operations research II	30h	02	
	T o t a l	220h	15	

Branch : Statistics

Serial Number	Subject	Number of hours	Weight	Observation
01	Data analysis	50h	04	Courses + L.W.
02	Econometrics	50h	04	Courses + L.W.
03	Sample survey (theory and practice)	30h	03	Courses + L.W.
04	Analysis and temporary ounds forecasts	30h	03	Courses + L.W.
05	Analysis of variance and planning experience	30h	03	Courses + L.W.
06	Population and Development	30h	03	Courses + L.W.
07	Planning and projects evaluation	40h	03	Courses + L.W.
	T o t a l	290h	25	

10. Admission requirements

Beninese candidates who hold baccalaureats and have passed the entrance competitive examination organised by the Training branch, may be registered for the Cycle I course at the "Institut National d'Economie". Those Beninese candidates who hold the diploma of the Cycle I issued by the "Institut National d'Economie" by the Ecole Nationale d'Administration and the "Complexe Polytechnique Universitaire" or of Masters in Economics and have passed the prescribed entrance examination may be admitted for specialisation in Cycle II.

The number of places reserved at the Cycle I and Cycle II depends on the needs of the State. Generally, foreign students are admitted into the "Institut National d'Economie" without passing the entrance examination but on a request supported by their States of origin or organisations which agree to bear the cost of their training. In any case, the number of places reserved for foreign students does not exceed 10% of the total number of students at the "Institut National d'Economie" except in the branches of subregional nature, such as Computer Science branch.

11. Fees

Fees are determined by the Academic authorities of the school. The fees for the 1986-1987 academic year for all Cycles have been fixed at Frs. CFA 5,500 for each Beninese student. Foreign students pay Frs. CFA 130,000 a year and Frs. CFA 100,000 a year for university work.

12. Fellowships

Beninese candidates who pass the entrance examination of the I.N.E. are automatically given study grants by the State. Foreign students are granted scholarships by their States or Organisations.

13. Living conditions

I.M.F. does not yet provide boarding and lodging facilities to its students.

14. Intake and output

End of year results (Statistics)

Cycle I

First year

	1980	1981	1982	1982-1983	1983-84	1984-85	1985-86
Intake	20	20	26	18	89	09	07
Output (Passes)	13	20	13	09	05	07	06

Second year

	1980	1981	1982	1982-1983	1983-1984	1984-1985	1985-1986
Intake	-	13	21	18	12	05	07
Output (Passes)	-	09	20	15	08	05	07

Third year

	1980	1981	1982	1982-1983	1983-1984	1984-1985	1985-1986
Intake	-	-	08	20	12	10	05
Output (Passes)	-	-	06	16	11	10	05

Cycle II

First Year

	1984-1985	1985-1986
Intake		10
Output (Passes)	-	09

N.B. The Statistics Branch was opened in Cycle II at the beginning of 1987-1986. academic year.

1. Country : Republic of Burundi

2. Name of the Centre: "Section de formation des adjoints techniques de la statistique"

3. Attached to : "Ecole superieur de commerce de Bujumbura"

4. Address : B.P. 1440
Bujumbura, Burundi

5. Name of the Head of the Centre : Cyrille NIMPAGARITSE

6. Objectives

The "Section de formation" which was established within "Ecole superieure de commerce" is aimed at:

- Training middle level statisticians able to collect, analyse and disseminate economic data and promote statistical activities in Burundi;

- Helping in the preparation of candidates for entrance examinations of more advanced schools of statistics; and

- Organising, at a latter stage, courses for serving statistical staff.

7. Brief historical background

In a letter No. 120/437 of 24 April, 1984, the Minister in the Office of the President, in charge of Planning, requested the Minister of National Education to kindly authorise the opening of a statistical training section within the "Ecole superieure de commerce" (ESCO), which was itself created on 2 November 1982.

The reasons which motivated that request were the ever increasing needs for statistical data in all sectors of the economic and social life of the country, lack of sufficient trained statistical staff, the limited intake capacity of African schools of statistics, the poor results obtained during entrance examinations of these schools and the difficulty in obtaining bursaries for the successful candidates. Following that request, the statistics section was opened within the "Ecole superieure de commerce" at the beginning of the academic year, in October 1984.

8. Academic staff

The teaching staff of the statistics section comprise 3 (three) permanent lecturers including one expert financed by the European Economic Community, and 15 (fifteen) visiting professors.

9. Teaching programmes

The Statistics section of the "Ecole superieure de Commerce" offers only one cycle of training: training of "adjoints techniques de la statistique". The management of the "Ecole superieure de commerce" has fixed a minimum of 800 hours

of course work to be given in all the sections of the school. This minimum number of hours enable the statistics section to accord priority to specific courses directly falling with the scope of the specialisations of the statisticians, and to give greater interest to the general courses offered at the "Ecole superieure de commerce".

9.1 Duration of training: 2 years

9.2 Conditions of admission

Admission into the statistics section is based on the directives given by the National Orientation Commission regarding students holding a full diploma in humanities (equivalent to French baccalaureat) of all subject groups.

9.3 Number of places available: 30

9.4 Teaching programme

Generally speaking, the teaching programme of the section is based on the standard programme for the training of the "adjoints techniques de la statistique" prepared by the Statistics Division of the ECA. The hours of training are as follows:

First year

	Courses	Number of hours
1.	Mathematics and statistics courses	435
1.1	Mathematics	195
1.1.1	Analysis	80
1.1.2	Algebra	70
1.1.3	Probability theory	45
1.2	Statistical methods and Computer science	240
1.2.1	Statistical organisation	15
1.2.2	Data collection	40
1.2.3	Data collection practice	20
1.2.4	Survey utilisation	30
1.2.5	Computer science	45
1.2.6	Descriptive statistics	90
2.	Economics courses	120
2.1	General economics	45
2.2	Economic geography	30
2.3	Enterprise accounting	45

First year (cont'd)

	Courses	Number of hours
3.	General culture	240
3.1	French	45
3.2	English	30
3.3	Civic education	30
3.4	General introduction to law	45
3.5	Public administration	30
3.6	Organisation and method	60
	T o t a l	795

Second year

	Courses	Number of hours
1.	Mathematics and statistics courses	300
1.1	Mathematics	120
1.1.1	Analysis	
1.2	Statistical methods and computer science	
1.2.1	Mathematical statistics	120
1.2.2	Sample survey methods	
1.2.3	Computer science	60
2.	Economics courses	150
2.1	General economics	60
2.2	Enterprise accounting	45
2.3	National accounting	45
3.	Practicals	165
3.1	Agricultural statistics	30
3.2	Foreign trade statistics	15
3.3	Industrial statistics	15
3.4	Transport statistics	15
3.5	Labour statistics	15
3.6	Price statistics	15
3.7	Demography	45
3.8	Energy statistics	15
4.	General culture	120
4.1	French	30
4.2	English	30
4.3	Project preparation and evaluation	60
	T o t a l	735

10. Admission requirements

See paragraph 3.2.

11. Fees

Not yet decided.

12. Fellowships

Not yet decided.

13. Living conditions

All the students of the "Ecole superieure de commerce" live outside the campus.

14. Intake and output

The following table shows the number of enrolled students and passes at the examinations'

	First year		Second year	
	Enrolment	Passes	Enrolment	Passes
1984/1985	31	10	-	-
1985/1986	-	-	19	12
1986/1987	-	-	-	-

1. Country : Central African Republic

2. Name of the Centre: "Centre de formation de la Statistique (CFS)"

3. Attached to : "Ecole nationale d'Administration et de Magistrature (ENAM)"

4. Address : P. O. Box 1045
Bangui, Central African Republic
Telephone: 61-04-88
61-20-78

5. Name of the Head of the Centre: Mrs. Odile Lepetit Poisneau

6. Objectives

The "Centre de formation de la statistique" (CFS) aims at

a) training
- "adjoints techniques de la statistique"
- "agents techniques de la statistique"

b) preparing candidates to various competitive exams for entering into schools of statistics

c) organizing continued training courses

7. Brief historical background

The project for the establishment of the "Centre de formation de la statistique" was discussed way back in 1982 by an evaluation mission undertaken as part of the joint CEC/ACP/ECA study on statistical training needs for Africa. The first mission was followed by two other missions (EEC and FAC) with a view to finalizing the project. A three party agreement between EEC/CESD and the Central African Government was therefore signed on 12 October 1984 for the financing of the establishment of the training centre. An expert in statistical training was recruited during the same month for the project. The "Centre de formation de la statistique" opened its doors in October 1985 with the first batch of "adjoints techniques".

8. Academic staff

The academic staff of CFS is composed of only lecturers - eighteen (18) visiting lecturers including eight "cooperants" (France, UDEAC), eight Central African senior statistical staff from the National Statistical Office and the Ministry of Planning and two National Senior Administrative Officers from other departments.

9. Teaching programmes

CFS provides two cycles of teaching: a) Cycle of "adjoints techniques" and Cycle of "agents techniques de la statistique".

9.1 "Cycle des adjoints techniques de la statistique"

9.1.1 Duration: 2 years

9.1.2 Admission requirements

- Direct competitive exam: Not yet instituted. Will be the same as at ISSEA in Yaounde.

- Professional competitive examination: Candidates for this examination must fulfill the following conditions:

  i) must be a national of the Central African Republic;

  ii) must be "agent technique de la statistique" belonging to the "corps de la statistique" or an official of category B of the Central African Public Service;

  iii) must have had three years experience on 1 January of the year of the competitive exam;

  iv) must have been rated above 15 for each of the three years of service;

  v) must be at least thirty-seven years old.

9.1.3 Number of places available: 20

9.1.4 Teaching programme: Instructions for the "adjoints techniques de la statistique" during the first year cover 765 hours of lectures and tutorials as against 735 hours during the second year. The breakdown of the teaching hours is as follows for each course:

First year

Subject	Number of hours	Weight
Mathematics	80+20	7
French	50	2
Computer science	50	2
English	30	1
Economics	70	4
National Accounting	30	3
Administrative Law	35	1
Descriptive Statistics	100	9
Probability	50	3
Demography	40	3
Economic and Social Statistics	30	2
Statistical methods	150	7
Physical training (sports)	-	-
T o t a l	765	45
Sample survey	-	6
General mark/assessment	-	1
Grand total (first year)	765	52

Second year

Subject		Number of hours	Weight
Mathematics		100	6
French		30	1
Computer science		90	3
Probability		70	4
Economics		90	3
"Kangare"		20	2
Enterprise accounting		30	2
Descriptive statistics		60	6
Demography		20	2
Economic and Social Statistics		100	9
- Price statistics	20		
- External trade statistics	20		
- Transport statistics	20		
- Agricultural statistics	20		
- Labour statistics	20		
Statistical methods		90	9
Sample surveys		40	3
Statistical co-ordination		25	2
Physical training (sports)			-
General work/assessment		-	1
Grand total (second year)		735	53

9.1.5 Awards: Students are allowed to repeat their classes only once throughout the duration of the training of "adjoints techniques". At the end of the first year:

- Students who obtain an average mark equal to 10 or above 12/20 are promoted to the second year
- Those whose average marks range between 10 and 12/20 shall take special exams and those who fail these special exams are allowed to repeat;
- Those whose average mark fall below 10 are not allowed to continue their "CFS" course.

The same rules apply at the end of the second year, except that students whose average marks at the end of the second year are equal to or above 12/20 are awarded the diploma of "Adjoint technique de la statistique" by the panel of examiners, signed by the Head of State and the Minister responsible for ENAM.

9.2 "Cycle des agents techniques de la statistique"

9.2.1 Duration: 1 year

9.2.2 Admission conditions

- Direct competitive exam: The competitive exam will be the same as the one organized by the "Institut sous-régional de statistique et d'economie appliquée (ISSEA)" in Yaounde. Candidates should be of the lower of "classe de premiere des lycees et colleges".

- Professional competitive exam: Candidates for this exam should be nationals of the Central African Republic and of category D civil servants in the public service.

The "cycle des agents techniques" would not start in October 1986 as planned because of the insufficient number of candidates who passed the competitive examinations.

10. Admission requirements (refer to sub-paragraphs 9.1.2 and 9.2.2).

11. Tuition fees: Once admitted, tution is free.

12. Fellowships

Students currently undergoing training receive their salaries of "agents techniques".

13. Living conditions

In accordance with the practice at ENAM, CFS students are incorporated into the armed forces of the Central African Republic and are subjected to military boarding regulations during their training. Concessions may however be granted to female students.

14. Intake and output

	First year	Second year
First batch 1985/1986	9	-
1986/1987	-	5

1. Country : People's Republic of Congo

2. Name of the Centre: "Centre d'Application de la Statistique et de la Planification (C.A.S.P.)"

3. Attached to : Ministry of Economic Planning

4. Address : P. O. Box 1085
Brazzaville, People's Rep. of Congo
Telephone: 81-47-15

5. Name of the Head of the Centre : Basile AKIELE

6. Objectives

The "Centre d'Application de la Statistique et de la Planification (C.A.S.P)" aims at:

a) Training

- "Techniciens Supérieurs de la statistique et de la planification";
- "Techniciens de la statistique et de la planification";

b) Providing further training for Senior Administrative staff in Statistics and Planning;

c) Offering such training as would enable statistical and economic planning officers to rise to higher positions in their profession.

7. Brief historical background

C.A.S.P. was established by Presidential Decree No. 83/854 of 22 November 1983 following the guidelines given for the preparation of the 1975-1977 three year programme relating to the organization of statistical services, and the pertinent diagnosis made during the formulation of the 1982/1986 five year development plan which highlighted serious shortcomings of National Statistical Services and the urgent needs in terms of middle level statistical and planning staff.

In that connection, a project intitled "Training of middle level statistical and planning staff" was included in the 1982/1986 five year development plan.

8. Academic staff

The academic staff include 2 full time lecturers and 30 part time lecturers, all Congolese. Steps are currently being taken to increase the number of the full time academic staff.

9. Teaching programmes

C.A.S.P. organises two training programmes

9.1 Programme for "Techniciens superieurs de la statistique et de la planification"

9.1.1 Duration: 2 years

9.1.2 Admission requirements

- External competitive examination:

Holders of the "Baccalaureat du second degre (series scientific)" or an equivalent certificate approved by the qualification assessment board.

- Internal competitive examination:

Holders of a diploma of "Agents Techniques de Statistique" and any category B civil servant with at least three years experience in that grade.

9.1.3 Number of places available

- External examination - 25
- Internal examination - 5

9.1.4 Time table

Instructions for the "Techniciens superieurs de la statistique et de la planification" during the first year cover 705 hours of lectures and tutoriels. A one and a half month practical course is organized at the end of the first year from July to mid-August. The second year covers 670 hours of lectures, tutorials and practicals.

The breakdown of the teaching hours is as follows for each discipline:

First year

Serial Number	Subject	Number of hours of lectures and/or tutorials
01	Statistics and statistical organization	70
02	Statistical methods	80
03	Health statistics	20
04	Education and employment statistics	20
05	Mathematics "(+Soutien)"	95
06	Probability	25
07	Economics and introduction to economic analysis	85
08	Demography	45
09	Computer science	45
10	Economic geography	30
11	Enterprise accounting	30
12	Techniques	40
13	National accounting	35
14	History of the Congo	20
15	English	25
16	Practicals (preparation)	40
17	Sports	2H/week
	T o t a l	705*

* Excluding the total number of hours of sporting activities.

Best copy available

Second year

Serial Number	Subject	Number of hours of lectures and/or tutorials
01	Statistics and statistical organization	35
02	Statistical methods	60
03	Agricultural statistics	20
04	Price statistics	20
05	Household income and expenditure statistics	20
06	Foreign trade and transport statistics	25
07	Industrial statistics	35
08	National, sectoral, regional planning and introduction to project analysis	160
09	Economics and introduction to economic analysis	35
10	Mathematics	30
11	Probability	25
12	Demography	35
13	Computer science	45
14	Techniques of expression	20
15	English	30
16	Administrative organization and administrative law	30
17	Practicals (data analysis)	45
18	Sports	2H/week
	T o t a l	670*

* Excluding the total number of hours of sporting activities.

Teaching activities at C.A.S.P. actually began in October 1983 with the opening of the "Techniciens supérieurs de la statistique et de la planification" section.

9.2 Section of "Techniciens de la statistique et de la planification

9.2.1 Duration: 1 year

9.2.2 Admission requirements

- External competitive examination:

Holders of the "Brevet d'Etudes Moyennes Generales, Techniques (B.E.M.G/B.E.M.T) or equivalent certificate approved by the qualifications assessment board.

- Internal competitive examination

Non-certificated "Agents Techniques" statistical clerks and any category C civil servant with at least three years experience in the grade.

Training has not yet started in this section.

9.2.3 Time table for the section of "Techniciens supérieurs de la statistique et de la planification"

The academic year begins around 15 October and ends on 30 June of each year on 30 June of each year for 2nd year students and trainees, and on 14 August of each year for 1st year students and trainees.

There are two vacations:

- End of year vacations - two weeks
- Easter holidays - two weeks

9.4 Awards

At the end of the second year, students or trainees who obtain an average mark higher than or equal to 12/20 are awarded a diploma of "Technicien supérieur de la statistique et de la planification". Those who obtain an average mark below or equal to 8/20 during the first part of the examination and below 12/20 during the second part, are given testimonials.

10. Admission requirements

See paragraph 9 above.

11. Fees

Fees have not yet been introduced at C.A.S.P.

12. Fellowships

Admission to C.A.S.P. automatically entitles the student to the Congolese Government scholarship. Civil servants who have passed the internal competitive exam continue to be financed from the budget of their originating institutions.

13. Living conditions

C.A.S.P. does not provide boarding facilities for its students.

14. Intake and output

Groups	Intake	Promoted to 2nd year	Awarded diploma at the completion of training (output)	Dismissed after	
				1st year	2nd. year
1st group (1983/1984)	29	28	27	1	1
2nd group (1984/1985)	27	27	27	-	-
3rd group (1985-1986)	27	24	-	3	-
4th group (1986/1987	20	-	-	-	-

1. Country : Rwanda

2. Name of the Centre: "Centre de Formation des Adjoints Techniques de la Statistiques" (C.F.A.T S.)

3. Attached to : Ministry of Planning

4. Address : C/O MINIPLAN, B.P. 46
Kigali, Rwanda

5. Name of the Head of the Centre : Jean Marie Vianney MOBIMPA

6. Objectives

The aim of the C.F.A.T.S. is to train "des techniciens superieurs de niveau Adjoints Techniques de la Statistique" (ATS) capable of working closely with "ingenieurs" and other Senior Management Statistical Planning Officers and co-ordinate implementation activities relating particularly to the collection, processing and analysis of data likely to facilitate decision taking in the various institutions, such as the public service, enterprises, development projects, etc...

7. Brief historical background

The Centre started operating in Kigali in November 1983 in the form of a project jointly financed by the Government of Rwanda and the European Development Fund (EDF). Its establishment was due to the high demand for "A.T.S", which could only be met through an organised local training scheme. Indeed, up to 1983, the "Adjoints Techniques" of Rwanda were trained in schools outside Rwanda, particularly in Yaounde and Abidjan. However, due to very high costs involved and limited number of places, it was no longer possible to rely on the services of these schools for meeting all the needs expressed during 1981 and 1982, by some public and private institutions likely to employ the "A.T.S."

Initially, the centre was to train two batches of students which would lead to total of 50 trained students. However, it became necessary later to enrol a third batch which was to complete its course in July 1987 and a fourth batch which was to begin training in November 1986.

In view of the country's needs of middle level statisticians, as evidenced in the results of a survey recently conducted among the potential users of statisticians, the Ministry of Planning has just launched with the appropriate departments, a procedure aimed at making the C.F.A.T.S a permanent training institution. In addition to the training of the "Adjoints Techniques de la Statistiques", this institution can (i) train "Agents Techniques de la Statistique", (ii) organise regular refresher courses for employees of the National Statistical Offices and (iii) where necessary, train senior management statistical planning staff.

8. Academic staff

Presently, C.F.A.T.S. has three Rwandan permanent lecturers, including the Director of the Centre, who cover almost 55% of the hours of courses of the training programme. For the remaining hours, the Centre receives assistance from about twelve visiting lecturers who generally handle courses requiring some amount of specialization, such as applied statistics, languages, etc.

9. Teaching programmes

9.1 Teaching courses

The teaching courses covers two academic years (1040 hours) (excluding periods of examination which comprise supervised work and preparations at the rate of 20 hours per course in respect of each subject), laboratory work and three months of practicals (or around 480 hours) namely one month at the end of the first year and two months at the end of the training period.

The academic year starts generally on the first Monday of October and the first Monday of November respectively in the case of the second and the first years, and ends, for both classes, at the latest, the second Saturday of the month of July, the following year.

In general, the C.F.A.T.S. teaching programme is based mainly on the teaching programme of I.S.S.E.A., Yaounde ("Division Adjoints Techniques de la Statistique") and the guide syllabus for the training of the "Adjoints Techniques de la Statistique" in the French-speaking African countries, prepared by the Statistics Division of the ECA.

Below are hours of teaching in respect of each course:

a) First year

	Title of course	Number of hours
01.	Descriptive Statistics	90
02.	Mathematics	70
03.	Probability theory	60
04.	General Economics	60
05.	Field Survey	45
06.	Enterprise Accounting	30
07.	Computer Science	30
08.	Demography	30
09.	English	30
10.	French	20
11.	Economic Geography	20
12.	Commercial Law	20
13.	Sociology	20
	Total	525
14.	One month's practicals	160
	Total hours for course work and practicals	685

b) Second year

	Title of course	Number of hours
01.	National Accounting	60
02.	Probability and mathematical statistics	60
03.	Mathematics	50
04.	Survey Preparation	50
05.	General Economics	45
06.	Sampling	30
07.	Computer Science	30
08.	English	30
09.	Data Analysis	20
10.	Price Statistics	20
11.	Foreign Trade Statistics	20
12.	Transport Statistics	20
13.	Financial Statistics	20
14.	Employment statistics	20
15.	Agricultural Statistics	20
16.	Industrial Statistics	20
	Total	515
17.	Two months' practical work	320
	Total hours for course work and practicals	835

9.2 Awards

At the end of two years of training, C.F.A.T.S. awards the diploma of "Adjoint Technique de la Statistique". To quality for this diploma, a student should have obtained a total mark of 12 out of 20 representing an average of 75% of course work and 25% of the end of course practical work. The Centre's regulations provide inter alia that each of these two last marks should be equal at least to 10/20.

10. Admission requirements

Admission into C.F.A.T.S. is strictly by a competitive examination. The entrance examination is the same as that of I.S.S.E.A. of Yaounde (A.T.S. Division) and is conducted in three subjects: Mathematics, numerical calculation and precis. The examination is open to candidates holding certificates in humanities (equivalent to French baccalaureat) who have taken courses in science, teaching or economics, to final year students of secondary school education majoring in one of these subjects or to holders of "Agent Technique de la Statistique" certificate.

11. Fees

Fees have not yet been established by C.F.A.T.S.

12. Fellowships

The files of candidates who have passed the competitive examination are submitted by the organisers of the examinations to the Ministry of Planning which transmits these files to the Ministry of Primary and Secondary Education which is the competent body to award study grants to successful candidates from secondary schools proceeding to the first cycle of higher education. It is therefore this Ministry which prepares the final list of the A.T.S. grant holders.

So far, students admitted into C.F.A.T.S. are granted scholarships by EDF.

13. Living conditions

Since the students live outside the campus, C.F.A.T.S. is not responsible for providing them with accommodation. They therefore find accommodations situated as much as possible within the vicinity of the Centre.

14. Intake and output

The total number of students including the number of the successful students are indicated in the table below:

Academic Year	First year		Second year	
	Intake	Output (passes)	Intake	Output (passes)
1983-1984	17	17	-	-
1984-1985	27	24	17	17
1985-1986	27	23	24	23

The above table shows that during the three years of its existance, the C.F.A.T.S. has awarded a total of forty "Adjoints Techniques de la Statistique" certificate to the first two batches of students admitted at the centre.

1. Country : Zaire

2. Name of the Centre: Institut superieur de statistique de Lubumbashi (I.S.S.)

3. Attached to : Departement de l'Enseignement superieur et universitaire

4. Address : P.O. Box 2471, Lubumbashi
Shaba, Zaire

5. Name of the Director : M.E. Dehousse

6. Objectives

The "Institut superieur de statistique de Lubumbashi (I.S.S.) aims at training "techniciens et ingenieurs techniciens en travaux statistiques", so as to meet the requirements of the Industrial sector and the Department of Planning of the country. In this connection, the ISS has widened its training programme in areas such as: political economy, economic analysis, demography, planning, national accounting and public finance.

7. Brief historical background

The "Institut superieur de statistique de Lubumbashi" was established in 1967 within the former "Universite officielle du Congo," with assistance from the "Societe Gecamines", which was producing the copper and the cobalt. Its first Board of Governors included the representatives of the Institutes of Statistics of the Universities of Brussels and Paris.

ISS became autonomous by the Departmental Order No. EDN/BCE/001/0081/75 of 1 September 1975 which also defined its programmes and fixed the number of years of study in preparation for a legal academic qualification. By a Decree No. 81-175 of 7 October 1981, ISS was given a civil status and became independent of the university.

ISS comes directly under both the Commissioner of State for Higher and University Education and the Board of Governors of the "Instituts superieurs techniques du Zaire". ISS operates under a co-operation agreement concluded between Belgium and Zaire.

8. Academic staff

ISS has 17 full-time and 7 part-time lecturers. The full-time lecturers include 5 expatriates (Belgian, Dutch and Polish) and 12 nationals of Zaire. The part-time lecturers include 3 expatriate lecturers, all Belgians, and 4 Zairian lecturers.

9&10 Teaching programmes and admission conditions

ISS provides two cycles of teaching.

(a) "Cycle de graduat"

i) Duration: 3 years

ii) Entry requirements: Holders of "Diplome d'Etat" preferably option math-physics, obtained with 55% minimum mark.

iii) Number of places offered in 1984: 120

iv) Use of time: Instructions for the "graduats" during the first year consists of 480 hours of lectures and 315 hours of practicals.

Instruction for those students admitted into the second year consist of about 510 hours of lectures and 345 hours of practicals. Those in the third year, have about 465 hours of lectures and 300 hours practicals. A three-month academic course of about 520 hours is organized for those in the third year.

The breakdown of the teaching hours is as follows for each discipline.

First year

Subject	Number of hours (Lectures and Practicals) Lectures	Practicals	Total
Civics and development	45	-	45
Logic and written and oral expression	45	-	45
Linear Algebra	30	30	60
Infinitesimal Analysis I	60	60	120
Analytical Geometry	30	30	60
Numerical calculus	30	30	60
Introduction to calculus of probabilities	30	30	60
Descriptive statistics and design applied to statistics	60	60	120
Introduction to accountancy	45	30	75
Data collection techniques	15	15	30
Business correspondence	15	15	30
Sociology	30	-	30
Notions of political economy	45	15	60
T o t a l	480	315	795

Second year

Subject	Number of hours (Lectures and Practicals) Lectures	Practicals	Total
Infinitesimal Analysis II	30	30	60
Matrix Algebra	30	15	45
Calculus of Probabilities	30	30	60
Mathematical statistics	30	30	60
Applied statistics I	30	15	45
Numerical analysis, graphs and use of machines	30	30	60
Mathematics of finance	30	15	45
Business Accounting	30	30	60
Business Management (classification and management of a statistical office)	30	15	45
Elements of economic analysis	45	30	75
Elements of demography	45	15	60
Elements of computer science	30	30	60
Technical English I	30	-	30
Course: - Experimental physics	45	30	75
- Marketable products	45	30	75
T o t a l	510	345	855

Third year

Subject	Number of hours (Lectures and Practicals) Lectures	Practicals	Total
Applied Statistics II			
- Applied statistics	15	30	45
- Theory of indices	15	15	30
- Economic and social statistics	15	15	30
- Demographic statistics	15	15	30
- Agricultural statistics	15	15	30
- Trade and transport statistics	15	-	15
- Industrial statistics	15	15	30
Computers, computer programming and flow charts			
- Programming and flow charts	30	30	60
- Study of a machine language	30	30	60
- Theory and use of computers	30	-	30

Third year (cont'd)

Subject	Number of hours (Lectures and Practicals) Lectures	Practicals	Total
Operations research			
- Theory of graphs and P.E.R.T. method	30	15	45
- Stocks and equipment management	30	15	45
Analytical company accounting	30	15	45
Theory of public administration	15	-	15
Public Finance and National Accounting	30	30	60
Organization of enterprises	15	-	15
Human and economic geography	30	30	60
Elements of planning and African Social dynamics	30	15	45
Political, administrative and social institutions of Zaire	15	-	15
Elements of public and private law	15	-	15
Professional ethics and deontology	15	-	15
Technical English II	15	15	30
Three months practical course	-	520	520
Writing of an end of course paper	-	-	-
T o t a l	465	820	1285

v) Awards

Students who have successfully completed their course are awarded a diploma in statistics.

(b) Cycle of degree

i) Duration: 2 years

ii) Admission conditions: To qualify for admission for the cycle of degree programme, candidates should :

- have passed with distinction the third cycle course in statistics or be engineers or graduates in another discipline passed with distinction,
- should not have repeated a class during their studies,
- have worked for two years after the third cycle studies,
- provide recommendations from their employers,
- have passed an entrance examination organized by I.S.S.,
- attach an academic record indicating the distinctions obtained,
- complete in duplicate an application form for admission into I.S.S.

iii) Number of places offered in 1984: 25

iv) Use of time: The first year course comprises 420 hours of lectures and 405 hours practicals. Those in their second year do 300 hours of lectures and about 1165 hours of practicals, broken-down as follows:

Professional practice : 350 hours
Four months course : 680 hours
Actual practical work : 135 hours

The distribution of the hours according to each discipline is as follows:

First year

Subject	Number of hours (Lectures and Practicals) Lectures	Practicals	Total
Additional Mathematics	45	45	90
Special computation methods	30	30	60
Probability and theory of errors of observation	30	30	60
Mathematical statistics	30	15	45
Methods of statistical research, opinion polls, census and investigations	30	30	60
Economic statistics	30	15	45
Additional operations research I			
- "Files d'attente"	15	-	15
- Stocks Management	15	-	15
- Equipment Management	15	-	15
- Payment Orders	15	15	30
Planning	15	15	30
Microeconomics	30	15	45
Computer Science I	30	15	45
Special Accounting	30	30	60
Study of African Societies	30	15	45
Demography	30	15	45
Additional operations research II (partly an advanced course)			
- Linear programming	30	15	45
Financial Management (advanced course)	15	15	30
Methods of mathematical programming and introduction to practical calculations	30	15	45
T o t a l	420	405	825

Second year

Subject	Number of hours (Lectures and Practicals) Lectures	Practicals	Total
Applied mathematical statistics to industrial management	30	15	45
Method of mathematical programming and introduction to practical calculation	30	15	45
Mathematical statistics (1st degree course continuation)	30	15	45
Dynamic programming and Markov chains	15	15	30
Simulation method	15	15	30
Macroeconomics	30	-	30
Econometrics	30	15	45
Computer management systems	15	-	15
Machine language, analysis and programmes	30	15	45
General accounting and company analytical accounting	30	30	60
Financial management	15	-	15
Enterprise organisation and management	30	-	30
Professional practice (including 200 hours carried forward from 1st degree)	-	350	350
Four months practical course	-	680	680
T o t a l	300	1165	1465

v) Awards

Students who successfully complete their second year course are awarded a degree in Statistics.

(c) Academic year

For both cycles, the academic year begins around 15 October and ends on 31 July of each year. However, there are two vacations:

one week during the X'mas and New Year season
Two weeks during the Easter season

11. Tuition fees

The annual tuition fees for all cycles is 250 Zaires and is payable at the time of registration.

12. Scholarships

Admission into I.S.S. scholarship automatically entitles a student to Zaire Government's scholarship.

13. Living condition

I.S.S. provides boarding facilities for its students.

14. Intake and output